Dr. Rubén Del Rosario

Summary of Qualifications:

Dr. Del Rosario brings a unique combination of technical expertise, strategic vision, and leadership capabilities, with a focus on aligning resources, fostering teamwork, and driving innovation. A senior executive professional with extensive leadership and management experience in research, technical, and academic environments. Proven expertise in advancing technology innovation, leading change, fostering inclusive workplaces, and promoting collaboration to achieve mission-critical goals. Excels in forging partnerships across government, industry, and academia to advance research and development in advanced aerospace technologies. Extensive experience in strategic leadership, budget planning and management, compliance with government regulations, and navigating federal and state appropriations processes. Broad technical expertise spanning research and development programs, system engineering, advanced propulsion systems, and the management of cutting-edge research facilities.

At Kent State University, as Director of the Center for Advanced Air Mobility (CAAM), he has established the center as a leading venue for interdisciplinary research and student engagement. He has successfully expanded research opportunities, enhanced student access to hands-on experiences, and aligned academic programs with industry needs, preparing the next generation of aviation professionals. Prior to Kent State, Dr. Del Rosario held executive roles in aerospace, including 29 years at NASA's John H. Glenn Research Center, where he last served as Director of Aeronautics. He provided strategic oversight of aeronautics research programs, managing annual budgets exceeding $150 million. He also pioneered national strategies for electrification of aircraft propulsion systems and led the development of commercial subsonic aircraft technologies. A graduate of the NASA Senior Executive Service Candidate Development Program (SESCDP), he has been recognized with the NASA Outstanding Leadership Medal and ARMD Associate Administrator Award for Leadership and Management Excellence.

Work Experience:

Professor and Director of Center for Advanced Air Mobility
College of Aeronautics and Engineering
Kent State University
09/2024 – Present

Description of Duties:

- Serve as a full tenured professor in Aeronautics and Engineering with a focus on advanced aviation technologies, systems engineering, and future-forward innovations in aviation.
- Direct the mission and vision of the Center for Advanced Air Mobility (CAAM), establishing it as a premier hub for research, education, and innovation. Drive the center's strategic development to align with the goals of Kent State University's College of Aeronautics and Engineering (CAE).
- Lead multidisciplinary research initiatives advancing AAM technologies, including autonomous systems, electric propulsion, and sustainable aviation practices. Spearhead projects addressing critical challenges and contributing to advancements in industry and regulatory frameworks.
- Secure funding and resources to support CAAM's mission through research grants, industry sponsorships, and philanthropic contributions. Ensure financial sustainability and effective allocation of resources to meet strategic objectives.

- Build and strengthen collaborative relationships with government agencies, industry leaders, and academic institutions. Drive innovation through partnerships while addressing key challenges in AAM and shaping solutions for the integration of AAM systems into the National Airspace System.
- Represent CAAM at national and international forums to advocate for the significance of AAM research and education. Showcase the center's achievements and expand its influence by engaging with external stakeholders.
- Collaborate with stakeholders to shape regulatory and operational frameworks for integrating AAM into the broader aviation ecosystem, ensuring the development of safe, efficient, and scalable mobility systems.
- Enhance student experiences by integrating hands-on, real-world learning opportunities in AAM technologies. Design and implement academic programs and curricula that prepare students for leadership roles in the aviation industry.
- Champion workforce development programs tailored to the evolving needs of the AAM sector. Advocate for initiatives that equip students with critical skills in engineering, systems integration, and regulatory compliance, preparing them for high-impact roles in the future of aviation.

Vice President, Aerospace and Advanced Transportation
Crown Consulting, Inc.
11/2021 – 8/2024

Description of Duties:

- Directed services in advanced air mobility (AAM) and aerospace systems development and engineering, supporting federal agencies (NASA, FAA, DoD), state departments of transportation (Ohio, North Carolina, Pennsylvania, New York), and commercial entities.
- Oversaw a $50M research and consulting portfolio, providing strategic leadership for business development, contract management, and grant pursuits.
    - Key Grants, Contracts and Pursue:
        - Proposal Executive for NASA Academic Mission Services 2 (NAMS-2) - $121M (NASA Selection after departure) (October 2024 – November 2029)
        - Proposal Executive for NASA Data Analysis and Technical Support Services - $25M (May 2024 – May 2029)
        - Proposal Executive for FAA Systems Engineering and Technical Innovative Solutions / ATO Mission Support Services for UAS and AAM - $6.9M (April 2023 – April 2028)
        - Proposal and Project Manager for Ohio Department of Transportation (ODOT) UAS Center Program Management Support - $750K (January 2022 – January 2025)
        - Proposal Manager and Principal Investigator for NASA SBIR for AAM Community Integration Platform - $1M (May 2022 – May 2024)
        - Proposal Manager and Principal Investigator NASA SBIR Machine Learning for Contrail Formation Prediction - $150K (July 2022 – January 2023)
- Provided program management support to the UAS Center of the Ohio Department of Transportation (ODOT), overseeing all advanced air mobility activities in collaboration with NASA, FAA, and DoD.

    - Led efforts to develop Ohio's multiyear, multi-phase approach for integrating AAM into a multimodal transportation system.
    - Contributed to the development of the DriveOhio Framework for AAM, defining statewide strategies for AAM integration.
- Principal Investigator for the AAM Community Integration Platform Tool under NASA sponsorship.
    - Spearheaded the development and demonstration of software tools to support planning, analysis, and community engagement for AAM integration.
    - Defined data architecture and elements enabling analysis and visualization of socio-economic, noise, and safety considerations for local and regional transportation systems.

Senior Director, Aerospace Systems
Crown Consulting, Inc.
10/2019 – 11/2021

Description of Duties:

- Directed aerospace systems development and engineering services, focusing on forging R&D partnerships across industry and government for Crown Consulting, a company specializing in aviation engineering, information solutions, and analytics.
- Principal Investigator and Lead Author of the Economic Impact Report for Advanced Autonomous Aircraft Technologies in Ohio for the ODOT Research Office.
    - Led a multi-organization team to analyze the economic impact of advanced air mobility (AAM) in Ohio through 2045.
    - Conducted industry engagement, identified and mapped critical state demographics and infrastructure, and developed promising AAM and UAS use cases tailored to regional needs.
    - Assessed regional readiness for AAM adoption, forecasting GDP growth, job creation, and tax revenue potential.
    - Secured a NASA-Ohio Interagency Agreement through a successful proposal for the NASA Announcement of Collaborative Opportunities, advancing community integration of AAM.
- Principal Investigator for Automated Air Cargo Operations Market Research and Forecast for NASA.
    - Researched the market potential, timeline, risks, and opportunities for integrating uncrewed air cargo vehicles into the National Airspace System (NAS).
    - Led stakeholder and subject matter expert interviews to gather data and identify use cases for evaluation.
    - Provided expertise for the development of a system dynamics model and visualization dashboard to prioritize NASA's research portfolio.

Director, Aeronautics Directorate (Senior Executive Service)
NASA Glenn Research Center (GRC)
10/2016 – 9/2019

Description of Duties:

- Provided executive leadership for the Aeronautics Directorate, managing the execution of national, agency-wide aeronautics research and development programs with an annual project portfolio exceeding $150M annually.
- Served as Executive Leadership Liaison between NASA Headquarters' Aeronautics Research Mission Directorate (ARMD) and Glenn Research Center (GRC), ensuring alignment and successful execution of all assigned projects across NASA research centers.
- Directed over $50M annually in contracted activities with industry and academic institutions, overseeing procurement processes and serving as the government selecting official.
- Led a strategic portfolio focused on increasing energy efficiency, reducing environmental impacts of aviation, and enhancing global aviation mobility.
- Championed the organization's vision, mission, and goals by translating high-level objectives into actionable plans, influencing stakeholders, and setting strategic priorities for the organization aligned with NASA's mission.
- Developed future capabilities and programs by maintaining and leveraging market, technical, and competitive intelligence to meet evolving mission needs.
- Addressed complex challenges by applying business acumen and leadership skills to effectively manage human, financial, and informational resources for funded programs.
- Maintained quality and accountability through open communication, fostering transparency and empowering team members to excel.
- Strengthened and established key partnerships across NASA Headquarters, other NASA centers, industry, academia, and government agencies, ensuring collaboration critical to program success.

Deputy Director, Office of the Chief Information Officer (OCIO) (GS-15)
NASA Glenn Research Center (GRC)
08/2016 – 10/2016

Description of Duties:

- Appointed to serve as NASA Glenn's Interim Deputy Chief Information Officer during a transitional period, providing strategic leadership and oversight for the Office of the Chief Information Officer (OCIO).
- Directed key projects and strategic initiatives, ensuring alignment with organizational goals and priorities.
- Led efforts to establish a baseline portfolio of project commitments, developing a comprehensive funding model and conducting an evaluation of stakeholder relationships to enhance transparency and collaboration.
- Collaborated with the CIO, OCIO supervisors, Agency CIO and Deputy CIO, and other senior leaders to define objectives and priorities that aligned with both Center and Agency goals.
- Oversaw the collection and analysis of critical project, funding, and workforce data to identify and forecast major risks and deficiencies.
- Developed and prioritized strategic recommendations to address identified risks, ensuring alignment with NASA Glenn's long-term mission and operational objectives.

Assistant Deputy Associate Administrator for Programs (Interim Assignment - GS-15)
NASA Headquarters (HQ) - Science Mission Directorate (SMD)
01/2016 – 08/2016

Description of Duties:

- Provided executive oversight for key projects and strategic initiatives, driving the development and execution of programs and projects within the Science Mission Directorate (SMD).
- Facilitated connections and collaboration between NASA Headquarters science teams and NASA Centers supporting the SMD mission, fostering alignment and shared goals.
- Led efforts to assess and enhance processes for the safe operation of the existing fleet of SMD spacecraft and the successful execution of missions in formulation and development phases.
- Developed and delivered process improvement recommendations, ensuring alignment of management and engineering practices with NASA's Agency-wide policies and standards.
- Established the SMD's approach to Independent Program and Project Assessments, working collaboratively with leadership across the Mission Directorate, supporting NASA Centers, the Office of the Chief Financial Officer, and the Office of the Chief Engineer.

Assistant to Center Director (GS-15)
NASA Glenn Research Center
07/2015 - 01/2016

Description of Duties:

- Provided executive oversight for key projects and strategic initiatives across the Center, ensuring alignment with NASA's broader goals and objectives.
- Led NASA Glenn's contributions to the Agency Strategic Implementation Planning (A-SIP), collaborating closely with the Center Director, Associate Director for Strategy, and Chief Financial Officer.
    - Directed a cross-functional team of senior leaders to develop Center-wide strategies in alignment with the Agency's strategic goals.
    - Spearheaded the formulation of objectives and priorities for NASA Glenn's A-SIP response, ensuring alignment with both long-term Center and Agency interests.
    - Led efforts to collect and analyze workforce and facilities data, identifying major gaps and surpluses in GRC capabilities.
    - Developed and prioritized strategic programmatic opportunities to address identified gaps and surpluses, optimizing resource allocation.
- Partnered with the Center Associate Director and Manager of Center Management and Operations (CM&O) to create a framework for managing CM&O operations using Project Management practices, enhancing efficiency and accountability.

Manager, Advanced Air Transport Technology (AATT) Project (GS-15)
(project name changed from Subsonic Fixed Wing Project in 2014)
NASA Glenn Research Center
06/2009 - 07/2015

Description of Duties:

- Managed the Advanced Air Transport Technologies (AATT) Project, of the Aeronautics Research Mission Directorate (ARMD) from 2014 to 2015, following its transition from the Subsonic Fixed Wing (SFW) Project of the Fundamental Aeronautics Program (2009-2014).
- Led the reorganization and transition of the SFW Project Portfolio to align with the ARMD Strategic Implementation Plan, introducing new elements such as icing research, higher Technology Readiness Level (TRL) demonstrations, and a focus on Hybrid Electric Propulsion.

- Oversaw the management of a research portfolio with an annual budget of approximately $70M, implemented by a team of over 250 government civil servants, 100+ contractors, and more than $45M in external contracts and grants.
- Developed and implemented strategic direction for NASA's research on commercial subsonic transport technologies, ensuring alignment with the U.S. National Aeronautics Research and Development Plan and long-term needs for subsonic commercial aircraft.
- Fostered strategic partnerships with industry, academia, and other government agencies to advance subsonic transport research in the U.S.
- Created and executed project plans, ensuring the alignment of budget, schedule, and research requirements, and coordinated resources to meet project goals. Led collaboration efforts with NASA research centers.
- Provided technical and programmatic guidance to the AATT management team of 25+ personnel, overseeing all aspects of the project's research and development efforts.
- Ensured compliance with NASA's project management requirements, fostering best practices and adhering to internal policies.
- Led acquisition efforts totaling over $120M, securing research through Cooperative Agreements and Contracts. Oversaw the implementation of the project's acquisition plan via the NASA Research Announcement (NRA) mechanism and served as Source Selection Official for relevant projects.
- Contributed to the GRC Restructuring Implementation Team (2012), supporting the sub-team in formulating the restructuring of the Research and Engineering Directorate into competency-based directorates.
- Led GRC's efforts in the Aeropropulsion Solutions assessment as part of NASA's Technology Capability Assessment Team.

Invited Industry Lecturer (Concurrent with NASA Role)
Cranfield University
10/2012 - 10/2015

Description of Duties:

- Served as an industry advisor and technologist focused on advancing research in Turbo Electric Distributed Propulsion (TeDP) vehicle configurations, evaluating vehicle and propulsion system performance for future aviation technologies.
- Monitored and provided guidance on research funded through a NASA grant made possible by the generous bequest of a Scottish space enthusiast, advancing cutting-edge propulsion and power system innovations.
- Mentored and supported six master's students over three years, guiding their research in propulsion and power systems, contributing to the development of new capabilities in the aerospace sector.
- Served as a Doctoral Dissertation Committee Member, advising on research methodologies and ensuring alignment with industry best practices for advanced aerospace technologies.

Deputy Manager, Subsonic Fixed Wing (GS-15)
NASA Glenn Research Center
10/2007 - 06/2009

Description of Duties:

- Led the day-to-day management of the Subsonic Fixed Wing (SFW) Project, supporting the Project Manager by organizing technical efforts across in-house researchers, academia, and industry collaborators. Established and managed a team of Associate Project Managers (APMs) and Resource Analysts to ensure comprehensive project execution.
- Developed and led sub-project plans, working closely with Branch Managers, APMs, and Technical Leaders. Played a key role in redesigning the task agreement process for the program, improving project coordination and efficiency.
- Established and streamlined internal reporting processes for monthly and quarterly progress updates, ensuring effective communication of technical progress to NASA research centers and the NASA HQ Program Office.
- Led the creation of technical and financial phasing plans for the SFW Project and participating Centers, collaborating with research managers and APMs to ensure optimal resource allocation. Instituted an annual planning process, enhancing collaboration between the Project Management team and Center line management, making SFW one of the first projects to fully integrate Center Research Managers into the planning process.
- Appointed as Lead Project Management Official in a leadership team responsible for the proposal and planning phase of the ARMD Integrated System Program, Environmentally Responsible Aviation (ERA) Project. Jointly led a team of over 30 NASA employees in formulating the content for this new initiative, officially launched in FY2010 with an annual budget of over $60M for system-level experimentation of subsonic transport technologies.

Chief, Facility Management and Planning Office (GS-15)
NASA Glenn Research Center
04/2005 - 10/2007

Description of Duties:

- Oversaw facility management of all research and development ground test facilities at NASA Glenn Research Center (GRC) in support of Aeronautics- and Space-Related Mission Programs.
- Led efforts to develop and maintain a ground test capability aligned with NASA's mission and national needs. Supervised a team of Research Ground Test Facility Managers (GS-14 and above) responsible for ensuring operational excellence across facilities.
- Directed long-range strategic planning for the utilization, maintenance, and enhancement of GRC's ground test facilities, which included jet engine and engine component test facilities, rocket test stands, wind tunnels, and atmospheric and space environment test facilities.
- Formulated, advocated for, and managed projects for facility maintenance and enhancements totaling over $25 million annually. Responsibilities included managing the design and execution of facility modifications to meet evolving research requirements, establishing test conditions, and ensuring compliance with safety standards.
- Supervised and provided leadership to a team of up to 10 research ground test facility managers, ensuring the productivity, utilization, and operational health of the Agency's aerospace propulsion and power ground test facilities and equipment. Fostered career development, creating diverse opportunities for team members and supporting their professional growth.
- Advocated for and established NASA-wide and interagency partnerships, as well as cooperative agreements, to enhance capabilities in ground testing and evaluation, ensuring the alignment of resources and expertise with broader Agency goals.

Deputy Manager, Subsonic Vehicle Sector (GS-15)
NASA Glenn Research Center
05/2004 - 04/2005

Description of Duties:

- Served as Sector Manager for Subsonic Propulsion Systems within the Vehicle Systems (VS) Program, providing leadership for advancing subsonic transport technologies.
- Led a strategic team effort to identify and recommend the future capability suite needed to achieve program goals for subsonic transport technologies. Developed and maintained long-term technology development roadmaps aligned with program objectives.
- Provided strategic technical direction for the Vehicle Systems Program, collaborating with six project managers to define and manage an annual portfolio of $200 million in technology investments to ensure alignment with program goals.
- Defined and led systems assessments for the Subsonic Vehicle Sector, including setting, refining, and advancing sector goals to drive technological progress and program success.
- Chaired the Emissions and Noise Pervasive Interagency Panel (IPT) for the Department of Defense (DoD) Versatile Affordable Advanced Turbine Engine (VAATE) Program. Directed a core group of managers from NASA, DoD, FAA, and DOE to provide technical and strategic guidance for the program's objectives.
- Co-chaired the Technology Initiative Panel of the Environmental Integrated Planning Team within the Joint Planning and Development Office (JPDO). Spearheaded collaborative planning and alignment of technology development initiatives across federal agencies supporting the JPDO's mission.

Interagency Coordination Manager for Aeronautics (GS-15)
NASA Glenn Research Center
05/2003 - 05/2004

Description of Duties:

- Developed and implemented overarching strategies for GRC's Aeronautics activities, focusing on long-term planning, interagency collaboration, and strategic partnerships.
- Spearheaded efforts to establish synergy and cooperation through partnerships and alliances with multiple government agencies, including the Department of Defense (DoD), Defense Advanced Research Projects Agency (DARPA), Department of Commerce, Federal Aviation Administration (FAA), Department of Energy (DOE), and Environmental Protection Agency (EPA), as well as with key industry stakeholders.
- Formulated and executed advocacy plans to advance areas of synergy between GRC's Aeronautics Program and other government agencies, ensuring alignment with national priorities and increasing visibility for collaborative research initiatives.
- Successfully negotiated a Memorandum of Understanding (MOU) for collaborative research in power and propulsion technologies, formalizing partnerships between DoD, FAA, DOE, and NASA, and fostering shared advancements in critical aeronautics technologies.
- Provided technical guidance and strategic recommendations for Center-wide initiatives, serving as a trusted advisor to the Director and Deputy Director for Aeronautics.

Research Facility Manager (GS-14)
NASA Glenn Research Center

12/1998 - 04/2003

Description of Duties:

- Managed Aeropropulsion Research Test Facilities, overseeing operations and maintenance for the Engine Research Building's Turbomachinery, Heat Transfer, Combustion, and Flow Physics facilities. Directed activities across more than 60 test cells supporting research on aeropropulsion system components, including turbines, compressors, fans, combustors, inlets, nozzles, and other engine elements. Coordinated efforts across research and support organizations to ensure seamless project execution throughout the lifecycle.
- Developed and implemented strategic and short-term plans for facility maintenance, upgrades, and operational improvements. Advocated for funding and resources by presenting compelling cases to GRC Program Offices, the Construction of Facilities Program Manager, and NASA Headquarters.
- Fostered collaborative research opportunities, engaging with industry, academia, and government agencies such as the Department of Defense (DoD), Federal Aviation Administration (FAA), and Department of Energy (DOE) to maximize utilization of GRC's component testing facilities.
- Served as Project Manager for the Research Facility Investment Project and Research Facility Maintenance Activities under the Propulsion and Power Project of the Vehicle Systems Program. Directed planning, monitoring, and tracking of technical progress, financial performance, and workforce utilization to achieve project objectives effectively.

Lead Project Engineer for Propulsion, Advanced Subsonic Technology Program (GS-13)
NASA Glenn Research Center
03/1996 - 12/1998

Description of Duties:

- Served as Lead Project Engineer for the Propulsion Element of NASA's Advanced Subsonic Technology Program, playing a pivotal role in the planning, execution, and oversight of the project's technical and financial aspects.
- Supported the Project Manager by leading efforts to plan, implement, and monitor all technical and financial elements of the project. Coordinated in-house research activities through technical leaders and component working groups, ensuring alignment with project goals for technical performance, schedule, and cost. Advocated for and implemented changes and enhancements to the technical content in collaboration with in-house technical leaders, resulting in the development of a coordinated and comprehensive Emissions Reduction Project plan.
- Developed integrated technical and financial reports for monthly and quarterly reviews by NASA Headquarters and the Lead Center. Worked closely with the project manager, technical staff, procurement teams, resource analysts, and financial specialists to ensure the project met all financial metrics and operational objectives.

Research Test Engineer
NASA Glenn Research Center
10/1990 - 04/1996

Description of Duties:

- Served as Lead Test Operations Engineer for the Advanced Nozzles and Engine Components Test Facilities, overseeing the planning, execution, and analysis of experimental research related to advanced propulsion technologies.
- Conducted research and development as a Research Engineer, leading the planning and implementation of engine components research supporting NASA Programs, industry partners, and academia.
- Ensured operational excellence by coordinating multidisciplinary teams, managing test facility resources, and aligning research activities with NASA's technical objectives and schedule requirements.

Education:

Harvard Kennedy School of Government
Boston, MA
Senior Executive Fellows Graduate – 11/2015

Cleveland State University
Cleveland, OH
Doctorate in Engineering (Industrial and Systems Engineering) - 05/2004

Cleveland State University
Cleveland, OH
Master of Science in Industrial Engineering - 06/1993

University of Puerto Rico at Mayaguez
Mayaguez, PR
Bachelor of Science in Mechanical Engineering - 05/1990
Honors: Magna Cum Laude

Professional Development:

HITEC Leadership Summit - 2019
Government Affairs Institute, Congressional Operations Seminar - 2016
Leading Complex Systems - 2013
Risk Management I and II - 2013
Advanced Project Management/Advanced Systems Engineering - 2012
Media Communication Training - 2010
Leadership Alignment for Managers - 2007
Government Affairs Institute, Congressional Operations Seminar - 2004
Management of Technology and Innovation - 2002
Strategic Aspects of Project Leadership - 2000
Strategic Business Management - 2000

Presentations and Publications:

- Del Rosario, R. (2025). *Advanced Air Mobility: Shaping the Future of Transportation.* 73rd Annual Cleveland Engineering Society Engineering in Construction and Manufacturing, Cleveland, OH.
- Del Rosario, R. & Fox, R. (2023). *Planning for Advanced Air Mobility (AAM) and Community Integration*. Ohio Transportation Engineering Conference, Columbus, OH.

- Del Rosario, R. (2022). *Advanced Air Mobility: What it Means for Ohio (Invited Keynote).* Dronavation: The Kent State UAS Experience, Kent, OH.
- Del Rosario, R. (2022). *Is Your Community Ready for Air Taxis? Planners Take to the Skies.* Florida Planning Conference, Orlando, FL.
- Del Rosario, R. (2022). *Advancing Aviation to Its New Frontier (Invited Lecture).* University of Cincinnati - R.T. Davis Memorial Lecture, Cincinnati, OH.
- Del Rosario, R. (2022). *A Perspective on Demand Forecasting.* Vertical Flight Society: Electric Aircraft Symposium, Oshkosh, WI.
- Del Rosario, R. (2022). *A Perspective on Workforce and Economic Development for Advanced Air Mobility.* Future of Aviation: Advancing Aerial Mobility Through Technology, Sustainability and On-Demand Flight, San Francisco, CA
- Del Rosario. R. (2021). *The Promising Future of eVTOL.* Aviation Week Network's Aerospace Incubator – Advanced Air Mobility, Miami, FL.
- Del Rosario, R., Dyment, M.J. & Cohen, K. (2021). *Infrastructure to Support Advanced Autonomous Aircraft Technologies in Ohio: An Economic Impact Analysis.* Ohio Department of Transportation Report, Columbus, OH.
- Del Rosario, R. (2019). *New Era of Aviation: What is Real, What Needs Work (Invited Keynote).* ASME 2019 GT India, Chennai, Tamil Nadu, India.
- Del Rosario, R. (2019). *Developments in Hybrid-Electric Propulsion and Enabling Technologies: A NASA Perspective (Invited Keynote).* ASME Turbo Expo 2019, Phoenix, AZ.
- Del Rosario, R. (2018). *Roadmap of Technologies to Revolutionize Aviation: A NASA Perspective.* Montreal Aerospace Innovation Forum.
- Del Rosario, R. (2018). *NASA Glenn Aeronautics: Transforming Air Transportation (Invited Seminar)*. Cranfield University Student Seminar, Cranfield, UK.
- Del Rosario, R. (2018). *Electrified Aircraft Propulsion Development.* AIAA Propulsion and Energy Forum, Cincinnati, OH.
- Del Rosario, R. (2015). *Next Generation Aircraft Electrical Power Systems & Hybrid/All Electric Aircraft.* Aerospace Electrical Systems Expo, Long Beach, CA.
- Del Rosario, R. (2014). *An Overview of Low-Emission Combustion Research at NASA Glenn Research Center.* International Civil Aviation Organization, CAEP10 Working Group 3-4, Munich, GE.
- Del Rosario, R. (2014). *A Future with Hybrid Electric Propulsion Systems: A NASA Perspective, September.* DOD Turbine Engine Technology Symposium, Dayton, OH.
- Del Rosario, R., Koudelka, J, Wahls, R.A. & Madavan, N.K. (2013). The NASA Fixed Wing Project: Green Technologies for Future Aircraft Generations. 13th IASH Conference on Stability, Handling and Use of Liquid Fuels, Rohdes, Greece
- Del Rosario, R., Koudelka, J, Wahls, R.A. & Madavan, N.K. (2013). *The NASA Fixed Wing Project: Green Technologies for Future Aircraft Generations.* Royal Aeronautical Society's Fedden Lecture, Cranfield, UK.
- Hathaway, M.D., Del Rosario, R. & Madavan, N.K. (2013). *NASA Fixed Wing Project Propulsion Research and Technology Development Activities to Reduce Specific Energy Consumption.* AIAA 49th Joint Propulsion Conference, San Jose, CA.
- Acosta, D.M., Guynn, M.D., Wahls, R.A & Del Rosario, R. (2013). *Next Generation Civil Transport Aircraft Design Considerations for Improving Vehicle and System-Level Efficiency.* AIAA Aviation Technology, Integration and Operations Conference, Los Angeles, CA

- Del Rosario, R., Koudelka, J, Wahs, R.A. & Madavan, N.K. (2013). *Technical Progress and Accomplishments of NASA's Fixed Wing Project.* AIAA 51st Aerospace Science Meeting, Grapevine, TX.
- Del Rosario, R. (2012). *NASA Fixed Wing Project: Green Technologies for Future Aircraft Generations (Invited Seminar)*. The Ohio State University Aerospace Engineering Graduate Seminar, Columbus, OH.
- Del Rosario, R. (2012). *Propulsion Technologies for Future Aircraft Generations: A NASA Perspective (Invited Keynote Panel).* 2012 ASME Turbo Expo, Copenhagen, Denmark.
- Del Rosario, R. (2012). *Propulsion Technologies for Future Aircraft Generations: Clean, Lean, Quiet and Green May*. 3rd UTIAS International Conference on Aviation and Climate Change, Toronto, CN.
- Del Rosario, R. (2012). *Subsonic Fixed Wing: Overview of Technical Challenges for Energy Efficient, Environmentally Compatible Subsonic Transport*. AIAA 50th Aerospace Science Meeting, Nashville, TN
- Del Rosario, R. (2011). *NASA Aeronautics Overview (Invited Seminar)*. University of Puerto Rico at Mayagüez Student Seminar, Mayagüez, PR.
- Del Rosario, R. (2011). *NASA Aeronautics Overview (Invited Seminar)*. Polytechnic University of Puerto Rico Student Seminar, Hato Rey, PR.
- Del Rosario, R. (2011). *Advanced Concepts for Aircraft LTO NOx Reduction: A NASA Perspective October.* 2011 AIAA/A3F Aircraft Noise and Emissions Reduction Symposium, Marseille, FR.
- Follen, G.J., Del Rosario, R., Wahls, R.A., & Madavan, N.K. (2011). *NASA's Fundamental Aeronautics Subsonic Fixed Wing Project: Generation N+3 Technology Portfolio*. SAE 2011 AeroTech Congress and Exhibition, Toulouse, FR.
- Del Rosario, R. (2011). *Propulsion Technologies for Future Aircraft Generations: Clean, Lean, Quiet and Green (Invited Keynote Panel)*. 20th ISABE Conference, Gothenburg, Sweden
- Del Rosario, R. (2011). *Directions of Subsonic Aircrafts for the 2030-35 Timeframe: NASA Subsonic Fixed Wing Project*. University of Cambridge Graduate Lecture, Cambridge, U.K.
- Del Rosario, R. (2011). *Directions of Subsonic Aircrafts for the 2030-35 Timeframe: NASA Subsonic Fixed Wing Project*. Cranfield University Student Seminar, Cranfield, UK.
- Del Rosario, R. (2011). *Overview of the NASA N+3 Advanced Transport Aircraft Concept Studies*. Massachusetts Institute of Technology (MIT) Gas Turbine Laboratory Seminar.
- Del Rosario, R. (2010) US. *An MDAO Perspective.* NSF Workshop on The Future of Multidisciplinary Design and Optimization, Fort Worth, TX, U.S.
- Del Rosario, R. (2010). Oral Presentation: *Overview of the NASA N+3 Advanced Transport Aircraft Concept Studies*. Royal Aeronautical Society: Aerodynamics Conference, Bristol, UK.
- Del Rosario, R. (2010). *Aircraft Efficiency Step Jumps: Operations and/or Evolutionary Aerodynamics and Propulsion (Invited Panel)*. Royal Aeronautical Society Aerodynamic Evening Lectures, Bristol, UK.
- Del Rosario, R., Keys, L.K., Petersen, P.F., & Chen, I.J. (2004). *Concurrent Engineering for the Management of Research and Development.* 13th International Conference on Management of Technology
- Del Rosario, R., Davis, J.M., & Keys, L.K. (2003). *Concurrent and Collaborative Engineering Implementation in an R&D Organization.* 2003 IEEE International Engineering Management Conference

Professional Affiliations:

- American Society of Mechanical Engineers (ASME) – Fellow

- American Institute of Aeronautics and Astronautics (AIAA) – Associate Fellow
- Vertical Flight Society (VFS) – Member
- Air Traffic Control Association (ATCA) – Member
- Society of Hispanic Professional Engineers (SHPE) – Lifetime Member

Awards and Recognitions:

- HITEC 100 Award (Hispanic IT Executive Council) – Top 100 most influential and notable Hispanic professionals in the technology industry (2019)
- NASA Group Achievement Award: BLI2DTF Technology Development and Test Team (2017)
- NASA Group Achievement Award: Advanced Hybrid Wing Body with Over the Wing Nacel (2016)
- NASA Group Achievement Award: ACCESS II Experiment Team (2016)
- NASA Silver Achievement Medal (Group): FY2014 and FY2015 A-SIP Assessment Team (2016)
- ARMD Associate Administrator Award for Leadership and Management Excellence (2014)
- NASA Outstanding Leadership Medal: For sustained leadership and exceptionally high-impact achievements in the development strategy to NASA research projects for commercial subsonic transport technologies (2013)
- NASA Group Achievement Award: ACCESS Experiment Team (2013)
- NASA Group Achievement Award: 2012 Advanced Material Flight Experiment Team (2013)
- Associate Administrator Award for Program and Mission Support (Group): 2012 ARMD Outreach Team (2013)
- GRC Special Achievement/Act Award: GRC Aeronautics Roadmap Team (2012)
- Distinguished Alumni Award, “Excellence in Engineering”: 85th Anniversary of Colegio Ponceño High School (2011)
- NASA Group Achievement Award: Alternative Aviation Fuel Experiment Team (2012)
- ARMD AA Certificate of Appreciation: Successful completion of X-48B Phase 1 (2011)
- NASA Group Achievement Award: NASA American Recovery and Reinvestment Act Team (2011)
- NASA Group Achievement Award: ISRP and ERA Project Team (2010)
- LaRC Center Team Award: Environmentally Responsible Aviation (ERA) Team (2010)
- HEENAC Luminary Award for contributions to the Hispanic Technical Community (2009)
- Who's Who in America (2003)
- NASA Equal Employment Opportunity Medal: For efforts in supporting the goals of equal opportunity at the Glenn Research Center by recognizing the value of each individual (2001)
- Outstanding Young Men of America Publication (1998)
- NASA Group Achievement Award: X-36 Tailless Fighter Agility Research Aircraft Development Team (1996)
- Numerous Individual Performance and Group Achievement Cash Awards (1990-Present)

Additional Information:

Certifications

- Top Secret/SCI Clearance Holder (Active)
- Federal Acquisition Certification for Program and Project Managers: Senior Expert Level
- Licensed Professional Engineer – State of Ohio

Special professional committees

- ASME Committee:
    - International Gas Turbine Institute's Aircraft Engine Committee (2002-Present)

    - Advanced Manufacturing for Aerospace Advisory Board (2020-2022)
    - Gas Turbine Segment Leadership Team (2016-2020)
- AIAA Committees:
    - Sustainable Aviation Workshop Steering Committee (2024-Present)
    - Green Energy Program Committee (2012-Present)
    - Electric Optimized Aircraft Systems Program Committee (2011-2022)
    - Co-sponsorship Review Committee (2015-2018)
    - International Activities Committee (2015-2018)
- International Council of Aeronautical Societies (ICAS): US delegation and Program Committee Member (2015-2019)
- Chairperson of the GRC Office of Equal Opportunity Programs' Hispanic Advisory Council (HAC) and member of the GRC Multicultural Advisory Board (1997-2000).

Community Service

- Advisory Council Member – College of Aeronautics and Engineering, Kent State University (2023-2024)
- Advisory Board Member - Promotion of Underrepresented Minorities in Academic STEM Alliance (PUMA-STEM), Elmhurst University (2020-2024)
- HENAAC Awards Selection Committee (2016-2021)
- E-Prep Charter Schools Board, Cleveland (2018-1019)
- S. Mary's Berea, Volleyball Coach (2009-2011)
- Esperanza, Inc. Scholarship Selection Interviewer (2001-2003)
- City of Berea Planning Commission (1996-2001)
- City of Berea, Charter Review Commission (1995)