

Christopher Marsella

OBJECTIVE	Use skills learn in the aviation engine industry, United State Marine Corps, and at American Airlines MRO facility to best support the mechanical engineering community.		
EDUCATION	McDonough School of Business, Georgetown University, Washington, D.C.	Current	
	<i>Masters of Business Administration</i>		
	Rensselaer Polytechnic Institute (RPI), Troy, NY	May 2017	
	<i>Bachelor of Science in Aeronautical Engineering</i>		
	• Rensselaer Leadership Award; Dean's List		
	Dutchess Community College (DCC), Poughkeepsie, NY	Spring 2011	
	<i>Associate in Arts in Liberal Arts & Science in Mathematics</i>		
	• Presidents List; Dean's List		
EXPERIENCE	Pratt and Whitney Multiple Assignments within Military Customer Support and Services	July 2020-Current	
	Military Customer Support Engineer (CSE)		
	• Component Improvement Program Retrofits Manager	March 2024 - Current	
	○ Quorum approval representing CSE for Product Change Incorporation Review Process		
	○ Review all engineering changes to quantify and maximize positive field impacts		
	○ Influence effective solutions for unit / depot implementations plans of new configurations		
	○ Design Time Compliance Technical Directives to integrate and retrofit fielded assets		
	○ Represent CSE at all Component Improvement Plan discussions with external customers		
	• Lifing Data Investigation Lead	July 2024 – Current	
	○ Liaison with Software, Sustainment, and Logistics team to ensure successful lifing data update		
	○ Report to senior leadership on field status of systemic lifing data corrections		
	○ Advocate for solutions minimizing work for service members and maximizing risk mitigation		
	○ Monitor fleet data to mitigate risk and direct early intervention to avoid module overflights		
	○ Implement strategic plans for lifing data correction of fielded assets		
	○ Manage workload of cross functional team prioritizing actions to best support customer		
	• Maintenance Awareness Lead	August 2021 – Current	
	○ Lead Maintenance Awareness Program to drive awareness of top maintenance drivers		
	○ Identify maintenance drivers and create training curriculum for worldwide customer base		
	○ Plan and coordinate team of engineers to support training at 30+ bases		
	• Engineering Investigations Lead	July 2020 – June 2023	
	○ Lead reliability and engineering investigations to determine root cause and corrective action for propulsion sustainment issues		
	○ Develop, compile, and communicate depot work-scope to support root cause investigation		
	○ Ensure strict investigation adherence to Department of Defense policy and contract		
	○ Liaison with Quality department to communicate investigations that fall outside of engineering		
	○ Communicate status of investigations to senior leadership to facilitate support planning		
	Pratt and Whitney Multiple Assignments within Mechanical Systems, Externals, Nacelles Module Center	July 2017-June 2020	
	• PW1200G Nacelle Certification Retrofits, Project Engineer		
	○ Manage engineering documentation to support retrofits on customer flight test vehicles		
	○ Determine and order required parts to support customer retrofits		
	○ Facilitate movement of hardware from supplier to the customer		
	○ Record financial figures from service and hardware cost to reconcile budget with CIPT		

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- **Externals Military Development Program, Structural Engineer**
 - Build finite element models
 - Perform stress analysis on brackets and tubes using Ansys Workbench
 - Validate theoretical analysis for HCF and LCF using ping testing
 - Develop designs to mitigate risk high cycle fatigue failure
- **Integrated Product Team Lead PW1400G (Development) & PW1900 (Production)**
 - Integrating supplier design activities meet technical requirements and part 25 certification
 - Rectify technical issues and drive design team to solution
 - Act as Pratt and Whitney focal for Nacelle related flight test AOG issues.
 - Support field issues as CIPT focal for responsible hardware
 - Manage Engineering Changes that pertain to the assigned hardware
 - Conduct leak checks on engine nacelles to ensure no manufacturing or design defects

American Airlines, Base Support Co-op Engineer

January 2016-August 2016

- Develop technical dispositions and guidance for aircraft issues that exceed published limits for structural damage
- Perform stress analysis to substantiate and develop structural repairs plan
- Reverse engineer to calculate ultimate load bearing capability of repair structure
- Provide aircraft system troubleshooting assistance to Base Maintenance

United States Marine Corps, Enlisted Crewmaster Instructor 6276/7382

June 2011-Present

- Design a load plan for weight distribution of cargo in aircraft
- Act as work center supervisor in Marine Corps Aviation maintenance shop
- Managed safety and security of hazardous material and sensitive information in transit
- Troubleshoot the aircraft in the event it experiences any mechanical malfunctions
- While maintaining aircraft, adhered to a ridged Naval Aviation process and specifications
- Instruct and evaluate new crew members on their duties and how to perform them
- Mentor and manage career of 19 junior Marines division chief, similar to Industry "direct reports"