

EDGAR MARTINEZ

CONTACT

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SKILLS

- Team Leadership and Workforce Development
- Production Planning and Workflow Management
- Quality Control and Defect Analysis
- Technical Reporting and Customer Communication
- Precision Optical and Mechanical Assembly
- ISO Class 5 Cleanroom Operations and Protocol Compliance
- Metrology and Calibration (ER, TWE, OPD, Homogeneity)
- Sensitive Document Handling and Data Security
- FAA/TSA/Airline Ground Operations Safety and Security Compliance

CERTIFICATIONS

- Certified Calibration Technician (CCT) – ASQ (Issued 2024)
- OSHA 30-Hour General Industry Safety Certification (Issued 2024)
- IATA Dangerous Goods Regulations (DGR) Certification (Issued 2023)
- FAA Part 139 Aircraft Fueling Safety Training (Issued 2023)
- FAA/TSA/Airline Ground Operations Safety and Security Training (Issued 2023)

Defense laser fiber technician with advanced expertise in HEL fiber assembly, optical testing, metrology, and cleanroom manufacturing. Trusted to execute high-tolerance builds, troubleshoot complex optical systems, and uphold rigorous defense and aerospace quality standards

EXPERIENCE

August 2025 - Current

HELL-Laser Fiber Technician *NLight Defense* , Longmont, CO

- Assemble, splice, and test high-energy laser (HEL) fiber optic assemblies to defense and aerospace specifications
- Perform precision fiber handling, routing, and termination in cleanroom and ESD-controlled environments
- Conduct optical and mechanical inspections, power testing, and troubleshooting to ensure performance and reliability
- Follow detailed work instructions, drawings, and quality standards (MIL-STD / IPC-style processes)
- Document builds, test results, and nonconformances while supporting continuous improvement and production goals

April 2024 - August 2025

Lead Assembly technician *Excelitas*, Boulder, Co

- Lead and manage a 10-person team in ISO Class 5 cleanroom operations and quality compliance.
- Train and mentor new hires on optical assembly processes, cleanroom protocols, and metrology techniques.
- Execute precision optical and mechanical assemblies per complex blueprints and technical specifications.
- Perform metrology inspections, including ER (Extinction Ratio), homogeneity, TWE, and OPD measurements.
- Analyze complex build reports; deliver full breakdowns, solutions, risk assessments, and corrective actions.
- Manage team scheduling, timecards, callouts, sick leave, and ensure continuous production coverage.
- Interface directly with customers for build updates, technical troubleshooting, and project milestone reviews.
- Contribute to software development for assembly support tools, process tracking, and defect analysis.
- Perform high-tolerance precision manufacturing of optical and laser components under strict process controls.

March 2022 - April 2024

Aircraft fueler *Menzies Aviation*, Denver, Co

- Safely and efficiently fueled commercial and cargo aircraft according to strict aviation and safety regulations.
- Inspected fuel equipment and connections to ensure proper operation and prevent contamination or leakage.
- Monitored fueling procedures to maintain accurate fuel levels and comply with airline requirements.
- Maintained detailed fuel logs and documentation to support operational accuracy and compliance with FAA standards.
- Collaborated with ground crew and airline personnel to ensure timely and efficient aircraft turnaround.

EDUCATION

December 2025

Bachelor of Science Aerospace Engineering
Metropolitan State University

- Expected Graduation: May 2027
- Relevant Coursework: Thermodynamics, Aerodynamics, Propulsion, Materials for Aerospace, Control Systems
- Projects: Designed and analyzed an unmanned aerial vehicle (UAV) for environmental monitoring, Conducted CFD simulations for airflow over airfoils using ANSYS Fluent
- Skills: SolidWorks, MATLAB, Python, ANSYS, 3D Printing
- GPA: 3.6