

RYAN GRAJEWSKI

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Portfolio Website: <https://www.ryangrajewski.com/>

PROFILE

I am a hands-on, big-picture critical thinker, and I have the people skills that enable me to thrive in high-intensity, collaborative environments. I have a passion for understanding and pushing the physical limits of a design space, either through research, simulation, or experimentation, and my broad exposure to a wide variety of disciplines, techniques, and engineering problems leads me to solutions involving complex issues.

EDUCATION

Georgia Institute of Technology, Atlanta GA

Master of Science in Mechanical Engineering

Candidate for Graduation: **May 2023**

- Program of Study: Automation, Robotics, and Controls
- 5-year, dual-degree BS/MS program participant

Bachelor of Science in Mechanical Engineering

Graduated: **May 2022**

- Major GPA: 3.84/4.0 — Cumulative GPA: 3.66/4.0
- Highest Honors academic distinction

PROFESSIONAL EXPERIENCE

United Parcel Service - Advanced Technology Group (ATG) (<https://www.ups.com/>)

Atlanta, GA | **May 2022 – present**

ATG is UPS' foremost advanced R&D team, responsible for identifying, validating, and rapidly deploying innovative solutions which address a range of opportunities that face UPS in material handling, transportation, and logistics.

R&D Mechanical Engineering Intern – Rapid Prototyping Lab

- Designed, prototyped, and tested a compact package handling technology capable of accepting a package, determining the package's orientation, and manipulating/rotating it into any desired final orientation for further sorting and/or placement into subsequent package handling systems.
 - Invention selected for patenting – designated as primary inventor. Provisional patent application filed 2/7/2018.
- Initiated a “10% Project” in collaboration with the Smart Package Smart Facility team to explore a novel use-case for a mobile sensor technology in automated sorting facilities aimed at improving package traceability while circumventing traditional sensor hardware costs and power requirements.
 - Devised proof-of-concept hardware and experimentation setup, recorded data and articulated results, and presented findings to ATG team members
- ATG internal engineering consulting – supported other ATG initiatives with idea generation, mechanical design or CAD, and rapid fabrication services (often 1-2 day turnarounds) using shop equipment like the OMAX 55100 Abrasive Waterjet, CNC Mill, 3D Printer, Cold Saw, and welding station.

Safran Data Systems inc. (<https://www.safrandatasystemsus.com/>)

Norcross, GA | **May 2021 – Aug 2021**

SDS inc. is a subsidiary of French-owned Safran Group, specializing in the design and manufacture of equipment and antennas for on-board and ground telemetry, embedded data treatments, data acquisition, data recording, satellite control and remote sensing in the aerospace industry.

Quality Engineering and Supply Chain Intern

- Earned AS9100:2016 (Rev D) Internal Auditor Certification and conducted internal audit interviews with employees from all facility operations in preparation for the company's quality standard upgrade from ISO9001 to AS9100
 - Documented audit evidence and worked with employees to develop resolution strategies for any out-of-code findings
- Performed Lean Six-Sigma/5S continuous improvement study of the electronics service lab. Identified major bottlenecks according to the DMAIC process and instituted workflow improvements that led to:
 - 25% reduction in tool misplacement by implementing a check-in/check-out system and by organizing workstations according to 5S
 - 7% increase in service efficiency by digitizing traveler documents and integrating them in an SQL database, enabling accurate tracking of KPIs
- Led document control effort for the quality management system; controlled Corrective Action Reports satisfying AS9100 internal improvement standards

Pro-Type Industries inc. (www.pro-type.com)

Sterling, VA | **May 2019 – Aug 2019**

Pro-Type specializes in precision metal fabrication, CNC Machining, and prototyping for the Aerospace, Military, and Technology industries.

Machine Shop Apprentice

- Aided setup and execution of manufacturing processes in numerous departments including powder coating, CNC Milling, metal cutting, sheet metal bending, and widget finishing and inspection
- Produced CAD drawing packages and documented fabrication instructions for small-scale sheet metal components used in the Aerospace industry
- Trained in aluminum TIG welding, basics of 9-axis CNC Mill programming, hydraulic brake press operation, plasma cutting machine setup

CODING/SOFTWARE

- **Coding:** Matlab, Python, C (novice), C# (novice), Arduino, HTML5, css3, Javascript (novice), Git
- **CAD:** Solidworks, Fusion360, OnShape
- **FEA:** ANSYS, Solidworks Simulation

FABRICATION

- **Cutting:** Waterjet, Laser Cutting/Engraving, Cold Saw, Woodworking tools
- **Machining:** CNC Mill, Lathe
- **Forming:** 3D Printing, Sheet Metal Bending (hydraulic brake and handbrake), Pipe Bending, TIG Welding (novice)

PATENTS & CERTIFICATIONS

- **Patents:** Named inventor on 2 provisional US Patent filings (awaiting application filing number)
- **Certifications:** Dekra Certified AS9100 Aerospace Quality Standard Internal Auditor
- Lean Six-Sigma Certified White-Belt