

# 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*

Graduated: **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 – May 2023**

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](http://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