

RYAN GRAJEWSKI

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PROFILE

I am a motivated, detail-oriented critical thinker with a strong analytical skillset that is grounded in the fundamentals of mechanical engineering. My broad technical experience in mechanical design, manufacturing and fabrication, and R&D robotics prototyping has provided me with industry-level exposure to equipment and techniques that enable me to rapidly dissect problems and clearly articulate value-adding solutions. As a professional, I am passionate about pushing the physical limits of a design space towards innovations that redefine the human condition. Seeking full-time mechanical engineering roles upon graduation in May 2023.

EDUCATION

Georgia Institute of Technology, Atlanta GA

Master of Science in Mechanical Engineering

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

Candidate for Graduation: **May 2023**

Bachelor of Science in Mechanical Engineering

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

Graduated: **May 2022**

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 field 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 other package handling systems.
 - Invention selected for patenting – designated primary inventor, patent now pending
- 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 executives
- 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.safrandatasystems.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

SKILLS/PROFICIENCIES

- **Fabrication:** Waterjet, 3D-Printing, Laser Cutter, CNC Machining, Sheet Metal Bending, TIG Welding (novice)
- **Coding:** Matlab, Python (novice), Arduino, C (novice)
- **CAD:** Solidworks, Fusion360, Onshape
- **FEA:** ANSYS, Solidworks Simulation

RELEVANT COURSEWORK

- **Graduate:** Machine Vision, Machine Learning/AI, FEA Theory/App. Adv. Mechatronics, Robotics, Numerical Meth. for Modeling Dynamic. Systems
- **Undergrad:** Machine Design, Thermodynamics, Fluid Dynamics, System Dynamics
- 4-course Certificate in Intellectual Property Law

PATENTS & CERTIFICATIONS

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