

# ARIEL JASON SCHWARTZ

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[www.linkedin.com/in/ariel-j-schwartz/](https://www.linkedin.com/in/ariel-j-schwartz/) | <https://github.com/arishorts>  
<https://arishorts.github.io/arishorts-portfolio/>

Skilled back-end developer with a 3.6 GPA B.S. in Mechanical Engineering and 7 years of professional experience. Seeking to obtain an Engineer Manufacturing position and continue to challenge professional growth. Excels in presenting technical information to stakeholders and thrives in team environments with cognitive diversity. Served prestigious fortune 500 company and received an award given to 2 individuals on a program that serves government customers. Possesses intellectual curiosity and brings whole self to work.

## APPLICABLE SKILLS:

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- Formal engineering background with experience designing technical solutions for complex problems.
- JavaScript ES6+, CSS3, HTML5, SQL, GitHub, MySQL, Express, Node.js, Handlebars, jQuery, Bootstrap, Heroku, Jest, Sequelize

## PROJECTS:

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### MealMate | [github.com/arishorts/MealMate2.0](https://github.com/arishorts/MealMate2.0) | [arishorts.github.io/MealMate2.0/](https://arishorts.github.io/MealMate2.0/)

- Summary: Meal preparation application that provides recipes based off search criteria and shows local markets using Google API.
- Role: Lead, Github manager
- Tools: HTML, CSS, JavaScript, Tailwind, Google Places and Maps API, GoogleFonts, jQuery, Git

### MyTechBlog | <https://github.com/arishorts/my-tech-blog> | <https://arishorts-mytechblog.herokuapp.com/>

- Summary: This blogging app is a powerful tool for anyone who wants to create and share content on the web. It provides an intuitive interface for users to write and publish on a variety of topics.
- Role: Sole
- Tools: JavaScript ES6+, CSS3, HTML5, SQL, Git, MySQL, Express, Node.js, Handlebars, Bootstrap, Heroku, Sequelize

### NoteGenius | [github.com/arishorts/NoteGenius](https://github.com/arishorts/NoteGenius) | [arishorts-notegenius.herokuapp.com/](https://arishorts-notegenius.herokuapp.com/)

- Summary: A Note Taker app allowing users to create, save, and view notes. Overall, it provides users with a simple and intuitive way to take and organize notes.
- Role: Lead
- Tools: HTML, CSS, JavaScript, Bootstrap, Git, Heroku, Express, Node.js

## PROFESSIONAL WORK EXPERIENCE:

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### October 2019 – Present : Raytheon Technologies (RTX), Mechanical Engineer II

Supplied data-driven engineering recommendations on weapon system programs, covering a broad range of mechanical subsystems, including warheads, rocket motors, launch canisters.

- Led cross-functional teams of engineers, quality, supply chain, and manufacturing personnel from 6 departments in multi-disciplinary analyses to arrive at program-wide solutions.
- Coordinated with government customers, suppliers, and contractors to resolve technical issues; strengthened relationships by organizing and holding regular meetings to address issues.
- Conducted root-cause analysis on manufacturing defects; identified and resolved equipment problems which saved first-pass yield, saving \$13.5 million in rework and scrap costs.

- Created CAD drawings containing GD&T, general notes, surface finishes, material selection, processing, bill of materials, and configuration management; ensured accuracy and compliance with defense and aerospace industry standards.
- Adhered to internal process for reviewing new contracts ensuring 100% compliance with standard procedures and clear communication with suppliers.
- Presented complex technical information in a clear manner during regular board meetings to both technical and non-technical audiences. Completed 150+ presentations and received positive feedback.
- Demonstrated effectiveness in executing day-to-day tasks remotely with minimal supervision and proficiency in handling occasional travel to meet with suppliers.
- Traveled to the customer site to perform product repair and upgrades, resulting in saving the customer \$1.1 million and completed the work 1 week ahead of schedule.

**January 2019– August 2019 : Watts Water Technologies, Mechanical Engineer**

Designed, fabricated, and verified valve prototypes to meet requirements through testing and analysis.

- Relocated for a position and left due to a family emergency.

**July 2017 – January 2019 : Global Retool Group, Mechanical Engineer**

Designed drop-in automated machinery with flexible adjustment for General Motives manufacturing line.

- Collaborated with cross-functional teams to design and introduce automated machinery and fixtures to assembly lines. Example case resulted in a 33% increase in throughput and decreased downtime.
- Produced CAD preliminary and detail designs, drawing release, and design review presentations. 100% of Technical Data Packages maintained compliance with GD&T and automotive standards.
- Orchestrated and executed in-person product demonstrations for clients, showcasing key features and functionalities, improving customer relationships.

**April 2016 – July 2017 : SMW Manufacturing, Jr. Mechanical Engineer**

Created engineering solutions for an automotive manufacturing producer in a fast-paced industry.

- Prepared CAD models, drawings, and BOMs for production. Spearheaded automated Engineering Change Request process, eliminating handwritten sheets that resulted in a 10/hr per week time saving.
- Conducted manufacturing (DFM) reviews with cross-functional teams, identifying potential issues and proposing solutions that reduced production time and lowered costs.
- Modified tooling analyzing GD&T, metal flow physics, and machine specifications. Reduced defects and scrap costs by 25%, resulting in annual cost savings of \$75,000, and improved quality assurance.
- Performed root cause analysis and corrective action for recurring issues. In one case, upgraded to robotic measurement procedures, reducing high-volume scrap by 25% and inspection time by 50%.

**EDUCATION:**

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**January 2023 – June 2023 : University of Arizona, Tucson, AZ**

Full Stack Boot Camp Certification

**August 2010 – December 2015 : University of Arizona, Tucson, AZ**

B.S. Mechanical Engineering

Mathematics Minor

**Citizenship [US born] with DoD Secret Clearance [11/2019]**