Eric Weissman

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SUMMARY

Motivated engineer and graduate student who demonstrates strong work ethics and a motivation to learn, grow and help others through the application of multidisciplinary skills.

EDUCATION

M.S.E., Autonomous Systems and Robotics Engineering Graduating May 2025
Arizona State University, Tempe, AZ
B.S.E., - Concurrent Honors Aerospace Engineering BSE; Minor in Spanish Linguistics Graduating May 2024
Arizona State University, Tempe, AZ 4.05 GPA

PROFESSIONAL EXPERIENCE

Structural Engineer at Rosotics Inc. April 2023 - Present 4454 E Mallory Circle, Mesa, AZ, 85215

Currently leading the mechanical team in the design, prototype, and construction of a metal additive manufacturing machine for the rapid construction of 1.5-8m diameter rocket fuselages. Working to meet design constraints, hit project deadlines during project sprints, use trade studies and system engineering to make informed design decisions, developed accurate system models using COMSOL Multiphysics, developed new technologies in a startup RND setting using classical DOE tools and keeping costs below budget while also prioritizing the safety of the team and the end users.

Applied Engineering Intern at Rosotics Inc. August 2022 - April 2023 4454 E Mallory Circle, Mesa, AZ, 85215

Worked on a team of fellow interns to design, test and produce a preliminary induction-based wire additive manufacturing system which could print structural aerospace components. Utilizing FEA tools such as COMSOL Multiphysics, effectively simulated and validated optimal induction coil geometry, as well as key system requirements such as required frequency and current using a pareto frontier.

Vietnam Smart Agriculture Research and Coding Lead August 2021 - May 2022 1151 S Forest Ave Tempe, AZ 85281

Lead the research and coding teams on the Vietnam Smart Agriculture community service project where a team of ASU engineering students designed an integrated app and hardware kit, which would reduce water usage on small farms in the Mekong Delta, helping to limit fertilizer run-off and freshwater depletion. Responsible for regular deliverables in the form of research and algorithms.

Chipotle Service Manager June 2018 - January 2023 1038 S Mill Ave, Tempe, AZ 85281

Independently manage a team of 7 to 15 crew members at the busiest chipotle in the southwest. Scheduling, Coaching, motivating, training, in addition to the daily supervision and discipline as needed. Responsible for opening the restaurant, running all aspects of the shift as well as closing the location with the emphasis on minimizing labor costs, ensuring food safety, store cleanliness, and excellent customer service. Accounted for daily sales of $9,000 to $17,000 including cash. Efficiently manage inventory and deliveries daily.

Research and Publications

Ongoing Barrett Research (Ongoing)

- "Methods of Modeling Metal 3D Printer Deposition Using Computational Fluid Dynamics"

TECHNICAL SKILLS

Simulation: COMSOL Multiphysics, Ansys
Design and Applications: SOLIDWORKS, Fusion 360, NX, MATLAB, DOE, Design Optimization
Programming: C++, Java, Python
Other: Microsoft Office, Additive Manufacturing Process Tuning, AM Metallurgy
Certifications: Spanish (Professional Working Proficiency)- Arizona seal of biliteracy

ACTIVITIES

- **Rock Climbing**
- **Hobbyist Robotics (e.g., Arduino, Raspberry Pi, etc.)**