

Garrett Woodbridge

Garrett.A.Woodbridge@gmail.com

Summary of Qualifications

- Electrical and Mechanical Engineer with a Master's in Engineering, specializing in systems engineering
- Experienced in electromechanical systems design, safety-critical environments, and project management
- Skilled in PCB design, mechanical enclosures, and 3D printing for prototypes and holding fixtures
- Eager to contribute engineering expertise to the development and enhancement of animatronic figures and show action equipment in dynamic, interdisciplinary teams

Education

Oklahoma Christian University, Edmond, OK
Master of Science in Engineering

August 2022

Oklahoma State University, Stillwater, OK
Bachelor of Science in Electrical Engineering

December 2020

Professional Experience

Manufacturing Engineer – 556 SWES, Tinker Air Force Base | Oklahoma City, OK September 2022 – Present

- Collaborate with designers and multidisciplinary teams to ensure projects meet schedule and budget constraints
- Conduct peer reviews of electrical and mechanical projects, ensuring compliance with standards and operational requirements
- Design and mockup mechanical enclosures and 3D printed holding fixtures for various projects
- Author comprehensive technical documentation for new processes and applications, ensuring clarity and adherence to best practices

Electronics Engineer – 559 SWES, Tinker Air Force Base | Oklahoma City, OK February 2021 – August 2022

- Served as a DevSecOps engineer to develop, maintain, and support Thunder CAMP, a rapid, cloud-based software development and deployment platform
- Worked in an Agile environment, enhancing team dynamics and project delivery through iterative development
- Utilized Docker, Kubernetes, Gitlab, and the Atlassian Suite to streamline and secure software development processes

Summer Media and Tech Intern, Faith Bible Church | Edmond, OK May 2019 – August 2020

- Assisted in the coordination of a large-scale campus expansion project, communicating with contractors and integrators to ensure timely and quality installations
- Supported the integration of advanced network systems and audio-visual equipment, ensuring technical specifications met project requirements and standards

Attractions Host Cast Member – Disney College Program, Walt Disney World | Lake Buena Vista, FL. August 2017 – May 2018

- Enhanced Guest experiences by delivering exceptional service and implementing problem-solving skills in a fast-paced environment to thousands of Guests encountered daily
- Promoted a safe and enjoyable atmosphere for Guests, applying attention to detail and adherence to safety protocols in attraction operations
- Developed adaptability and teamwork skills by collaborating with colleagues in a dynamic and Guest-focused setting

Certifications

Lean Six Sigma Yellow Belt

July 2022

Fundamentals of Engineering

June 2022

Certified SolidWorks Associate (CSWA)

December 2018

Skills

Mechanical Design: SolidWorks, Autodesk Inventor, AutoCAD

Additive Manufacturing: FDM, SLS, SLA

Electrical Design: Siemens PADS, Altium

Programming: VBA, C++, Java, JavaScript

Leadership and Community Involvement

Front of House Audio Technician, Faith Bible Church

May 2013 – Present

Judge and Robot Inspector, FIRST Robotics Competition

February 2022 – Present

President, Institute of Electrical and Electronics Engineers (IEEE), OSU Student Chapter

May 2020 – December 2020

Participant, Disney's Ultimate Engineering Exploration (DUEE), Walt Disney Imagineering

November 2017