



Robert Trankley Mahler III

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Education

The University of Texas at Dallas

Bachelor of Science in Computer Engineering

August 2020 – December 2023

Experience

Senior Computer Engineer - Team Leader

June 2023 – December 2023

University of Texas at Dallas | Senior Capstone Project

Richardson, TX

- Oversaw product planning, research, technical development, and fundraising activities for our engineered Hover DR1, an audio based hoverboard drone attachment.
- Competed in the UTD senior design EXPO and achieved first place against twenty other engineering teams.
- Managed a diverse team consisting of six engineering students at UTD.
- Planned and presented at weekly stakeholder meetings with our corporate sponsor to discuss goals and timelines.
- Diagnosed and debugged hardware and software issues to maximize performance and reliability.
- Utilized C++ to code microcontroller using Fourier transforms to translate audio frequencies to a digital signal.
- Conducted a Kickstarter campaign and raised over \$1,500 for our initial product.
- Developed a user-friendly manual to ensure product safety, provide use cases, technical, and legal support.

Project Engineer

August 2023 – December 2023

University of Texas at Dallas | IOT Capstone Project

Richardson, TX

- Developed an edge-computing fishing rod analyzer that detects bites, cast distance, and line speed.
- Created a multi-class object detection algorithm capable of identifying 31 different fish species with over 80% accuracy on board of our device, utilizing TensorFlow Lite.
- Integrated the device with Amazon Web Services (AWS) for robust data management.
- Employed SolidWorks CAD software to design the mount and components for the device.

Brand Ambassador

February 2019 – May 2019

Verizon Wireless

San Antonio, TX

- Communicated information to customers about product quality, value, and system capabilities.
- Educated customers on the new Verizon 5G products and services while assisting them in selecting products.
- Strengthened customer confidence by actively listening to their concerns and giving appropriate feedback.

Information Technology/Quality Assurance Manager

June 2015 – June 2021

ADS Media Group (Fusion92)

Boerne, TX

- Programmed, developed, and tracked GPS units to verify ground crew task completion.
- Manufactured low-cost and highly efficient computer systems while detecting, documenting, and mitigating all risks associated with computer assembly.
- Supervised operational employees across the US to ensure delivery and completion of multimillion-dollar client marketing projects.

Skills

Embedded Systems • Computer Architecture • Internet of Things • Xilinx Vivado • Integrated Circuit Technology • Java • C++ • Python • Data Structures & Algorithms • Machine Learning • Power Electronics • Telecommunication Networks • Digital Circuits • MATLAB • Leadership • Communication • Adaptability • Mathematics • Microsoft Office • Strategic Planning • Public Speaking • Problem-Solving

Affiliations

- Eagle Scout at Boy Scouts of America
- VP of Student Organization at The University of Texas at Dallas
- Treasurer of Student Organization at The University of Texas at Dallas

June 2015 – Present

June 2022 – December 2023

June 2021 – June 2022

References - Available upon request