

William He

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EDUCATION

Bachelor of Science in Electrical Engineering

The University of Texas at Dallas

May 2023

GPA: 3.54

TECHNICAL SKILLS

Programming Languages: C, Python, C++, Java, MATLAB, MIPS, Verilog

Hardware: Soldering, Raspberry PI, BLE, circuit/schematic design, MSP430 Launchpad, Analog Discovery 2

Applications: Energia, TinkerCAD, Arduino, OrCAD, Diligent WaveForms, ZukenCAD, Adobe After Effects, Adobe Premiere, Adobe Photoshop, Microsoft Office Key Applications

WORK EXPERIENCE

RF Hardware Engineer Assistant, Murata Electronics

August 2021 – Present

- Assist the design team to test and develop LTE cellular IoT and Bluetooth/BLE products.
- Facilitate manufacturing and schematic design process for modules, packages, circuit boards, and PCBs.
- Debug issues and assist in the determination of resolution to issues discovered during testing.
- Conduct battery QA performances and produce research analysis reports and presentations for end-user products.
- Collaborate on artificial intelligence embedded systems application with Murata module.

Geek Squad Consultation Agent, BestBuy

July 2021 – August 2021

- Troubleshoot and perform maintenance, computer optimization, hardware, and software installation.
- Repaired Windows and OSX-based systems such as laptops, tablets, and desktop computers as well as Android and iOS-based devices.

ACADEMIC PROJECTS

Autism Treatment Center Sensory Device Project, EPICS

Spring 2021

- Launched prototype that simulates soothing touch to Autism patients through a remote-activated compression cuff.
- Researched and configured electronic components, 3D printing, PCB, and hardware design.
- Managed financial funds throughout the project as well as communicating as company liaison.

PERSONAL PROJECTS

The University of Texas at Dallas CometHack, IEEE's Virtual Hackathon

Fall 2020 – Present

- Planned a technical, student-driven hardware engineering hackathon by planning technical, club, and sponsored workshops/events with 150+ registered members and 7 company sponsors.
- Organized the schedule for all events before and during CometHack and handled organization expenditures while obtaining over \$6700 in sponsorship donations.

Magic Mirror Raspberry PI Project, Murata Sponsored Personal Project

Spring 2022 – Present

- Assemble a customizable mirror with smart, information displays like weather, news headlines, calendar, and more.
- Integrate the Murata BLE module onto the modular Raspberry PI to have Bluetooth Capabilities.
- Incorporate C coding within the Raspbian software side to have smart preferences for the display.

ORGANIZATIONS

Institute of Electrical and Electronics Engineers at UTD, *Lead Organizer*

Fall 2019 – Present

Engineers Without Borders at UTD, *General Member*

Fall 2019 – Present

HackUTD at UTD, *General Member*

Fall 2019 – Present

Chinese Student Association at UTD, *Treasurer*

April 2021 – Present

OTHER EXPERIENCE

Microsoft Student Ambassador, Microsoft

January 2022 – Present

Fundamentals of Cellular Communication and 5G Course, Qualcomm

January 2022 – Present

5G NR Technical Training, Qualcomm

January 2022 – Present

The President's Volunteer Service Gold Award, United States

2016-2017

Children's Association for Maximum Potential Volunteer Award, CAMP Camp

2016-2017