Madison Hester

705 White Oak Trail Monroe, Ga 30655 • mhester32@gatech.edu • (706) 453-6461• United States Citizen

EDUCATION

Georgia Institute of Technology- Atlanta, Georgia *June 2016 – May 2020*

B.S. Computer Engineering *GPA: 3.12/4.0*

EMPLOYMENT

Avanade **Atlanta, Georgia**

Solutions Development Analyst *May 2019- July 2019*

- Developed mobile applications for clients using C# with Xamarin in Visual Studios
- Integrated Sketch and Adobe Xd UI designs into mobile applications using XAML
- Worked with Azure and Azure DevOps to complete assigned tasks with Agile methodologies

Southern Company **Atlanta, Georgia**

Transmission Planning Intern *August 2018 – December 2018*

- Performed transmission grid simulations within PSSE and EnFuzion for economic development studies
- Created and modified maps and grids in AutoCAD
- Created and modified Visual Basic macros in Excel and Access
- Assisted Transmission Planning Engineers in the preparation of reports, data analysis, error checking and configuration of hardware and software

SKILLS

Programming: C / C++, C#, Assembly, HTML, CSS, JavaScript, VBA

Software: MATLAB, VHDL, PSSE, EnFuzion, Xamarin, AutoCAD, Altera Quartus II, Adobe Photoshop, Microsoft Office Simulink, NI LabVIEW, Adobe Xd

Hardware: Altera Cyclone II FPGAs, Pipelined MIPS Processor

Operating Systems: Windows, Linux (Ubuntu), Mbed OS

Database: Microsoft SQL, MySQL

Instrumentation: Oscilloscope, Logic Analyzer, Multimeter

Leadership: CRU Promotional Leader

Communication: Technical Reports, Presentations

Foreign Languages: American Sign Language (Proficient)

Concepts: Computer Communications, Embedded Systems, Digital Signal Processing, Architecture Concurrency, Advanced Programming Techniques, Computer Security, Cryptographic Hardware for Embedded Systems

PROJECTS

Simple Computer

- Built a working programming language in VHDL
- Used the programming language built to program a DE2 Robot into navigating around different obstacles

Embedded Systems- Laundry Room Manager

- Used a master raspberry pi and slave mbeds to read input signals from washers and dryers, send the data to an AWS server, and update an associated website to notify users when their laundry was done, and which washers and dryers were available at any given time