

Jordan McGhee

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Dedicated and hardworking hardware engineer with an interest in computer architecture and RTL design. Large range of experiences ranging from aircraft design, network protocols, and GPU architecture. Looking for a position where I will be able to solve tough problems and better myself as a hardware logic designer.

PROFESSIONAL EXPERIENCE

Insurezone,

Tech Team Intern

Oelwein, IA

May 2018–Present

- Developed an Action Point parser for porting the existing web application to mobile
- Tested and Integrated new code into the existing codebase
- Helped plan and develop new features for the Insurezone platform

Oelwein High School

Tech Team Member

Oelwein, IA

August 2015–May 2018

- Repaired and maintained MacBooks for student and faculty use
- Provided I.T. Services for the members of the Oelwein Community School District
- Helped set up new tech infrastructure as the school district grew

EDUCATION

IOWA STATE UNIVERSITY

Bachelor of Science in Computer Engineering

Ames, IA

August 2019–Present

IOWA STATE UNIVERSITY

Bachelor of Science in Aerospace Engineering

Ames, IA

August 2019–Present

PROJECTS

GPU

- Implementing the Graphics Pipeline on a Xilinx FPGA
- Developed hardware logic for triangle rasterization

Ames, IA

January 2022–Present

MIPS Processor

- Created a single cycle design, and a 5 stage pipelined design
- Worked on debugging and verification framework (written in python)
- Used Cadence Synthesis, Route and Place, and Optimization tools

Ames, IA

August 2021–January 2022

Digital Potentiometer

- Created a digital 60k potentiometer, complete with custom Op-Amp

Ames, IA

January 2021–May 2021

MTCP Network Protocol

- Created an implementation of the MTCP network protocol using Linux sockets
- Up to four simultaneous TCP Connections

Ames, IA

August 2021–January 2022

ADDITIONAL SKILLS

- Programming Languages: C/C++, Java, Python, VHDL, Verilog, VBScript, HTML/CSS/JavaScript, MIPS Assembly
- Course work: CPU/GPU Architecture, Digital/VLSI Design, Algorithms, A.I, Coding
- Tools: Genus, Innovus, Virtuoso, Quartus Prime, Vivado, Modelsim