KEATON CLARK

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EDUCATION

Bachelor of Science in Computer Science and Engineering — **08/20 - 05/24**
University of Nevada, Reno — ***GPA : 3.6***

TOOLS

Languages	**C · C++ · Rust · JavaScript · Python · Bash · Cuda · VHDL**
Embedded Platforms	**ARM · RISC-V · AVR**
Software	**KiCad · Docker · Poky/Bitbake · LaTeX**

WORK EXPERIENCE

Horiba Semi-Conductor — **05/23 - Present**
Firmware/Linux Intern — ***Reno***

- **Headed embedded Linux development and communication between Linux and real time cores for an upcoming product**
- **Designed embedded Linux development environment in a way to preserve code across different target machines and be reproducable on different host machines.**
- **Developed various internal solutions built on top of FreeRTOS and baremetal**

Finsure — **05/22 - 11/22**
Full Stack Intern — ***Remote***

- **Proposed an approach to increase web traffic and provide a profitable service to the Insuretech ecosystem as well as architecting from scratch the website and this webservice**
- **Composed over 200 webscraping scripts as well as the database needed to store and access the 100,000 data entries neccesary for this devolopment**
- **Advertised the project and the progress made to ITC Vegas, the largest conference of insurance leaders and innovators at over 30,000 attendees**

Juicy's Giant Hamburgers — **10/17 - 07/21**
Assistant Manager — ***Reno, NV***

PROJECT EXPERIENCE

Dove - Embedded Systems Project — **ARM, Python**

- **Designed a 32x64 led matrix clock for a personal project**
- **Leveraged free data bases as well as synchronous remote requests to display 366 unique graphics**
- **Adapted several libraries in order to increase operating speed and reduce flicker on the display**

PlaceR - Virtual Reality Data Visualizer — **C#, Unity, Python, Pandas**

- **Processed and manipulated 1 billion data points from the Reddit social experiment known as r/place and displayed these data points in a visually appealing manner with a virtual reality experience**
- **Leveraged Unity to create a heat map as an overlay of the r/place grid, where users could click through the experience to view the highest and lowest areas of activity as Reddit users edited pixels throughout the 5-day event**
- **Developed within a 24-hour time frame and won 1st place overall in the 2022 Reno ACM Hackathon**

Swamp Cooler - Embedded Systems Project — **C, AVR, PCB Design**

NNCUDA - Neural Networks Library — **C++, Cuda, Convolutional Neural Networks**