Charles Wilkin

| Address: | | Email: Charlie@BusyBoredom.com | | | |
|--|---|---|--------------|-----------------------|--|
| USA | | Website: BusyBoredor Github: GitHub.com | | m.com /busyboredom | |
| EDUCATION Electrical Engineering B.S. –Pennsylvania State University | | | | May, 2020 | |
| | Physics B.SWest Chester University | | | May, 2020 | |
| Experience | Electrical Controls Engineer – Universal Machine Company UMC designs and builds custom machinery for industrial automation. Programmed PLCs, HMIs, and robotic arms for custom machinery according to each client's unique requirements. Automated onboard logging and reporting, meeting strict regulatory requirements for completeness, security and reliability. | | | | |
| | Co-Founder – Vinegar Hill, LLC Vinegar Hill LLC is a small mean professionals, founded to gain entrepre | | | Jan, 2018 – Present | |
| PROJECTS | SobreMesa SCADA – A framework for web-based industrial contrand data acquisition using only open-source tools. | | | Dec, 2020 – Present | |
| | AcceptXMR – A multithreaded, asynchronous Monero payment gateway library. | | Nov, 2021 | | |
| | Sunblock – Shield your eyes from the sun with a motorized sun shade using Haar cascades and OpenCV. | | | Dec, 2020 | |
| | Gooba – An event-driven spiking neural s | event-driven spiking neural simulator written in rust. $\mathbf{er} - \mathbf{A}$ hackathon team project to automatically detect, inscribe abusive language (won 2^{nd} place). $\mathbf{pad} - \mathbf{A}$ hackathon team project to notify drivers of eather conditions. | | Dec, 2020 | |
| | | | | Nov, 2020 | |
| | GetOffTheRoad – A hackathon team problematic weather conditions. | | | Nov, 2019 | |
| | Amplifier Optimizer – A genetic algor design homework. | ithm that does | your circuit | Apr, 2019 | |
| | The Inebriator – An automated bartende | er. | | Mar, 2019 | |
| | JudgementBot - A selfie-rating convolutional neural network. | | twork. | Jan, 2019 | |
| | Bro Server – A collection of self-hosted Bitwarden and Git servers. | d projects inclu | ding XMPP, | Jan, 2019 | |
| SKILLS | Languages – C++, Python, Rust, JavaS | cript, MATLAB | , VBA. | | |
| | Databases – MySQL, PostgreSQL, MSSQL. | | | | |
| | Backend – Flask, Actix-Web. | | | | |
| Frontend – HTML5, CSS, Qt, WebAssembly. | | | | | |
| | Libraries – NumPy, SciPy, Pillow, (| OpenCV, libplo | tag, Serde, | | |

Updated: January 23, 2022

Programming Since 2011 (10 Years)

Tools - CMake, GCC, Git, Cargo, Tensorflow, Linux Command Line.

Matplotlib.