# Charles Wilkin

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| | | **Github:** | GitHub.com/busyboredom |

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### EDUCATION

**Electrical Engineering B.S.** –*Pennsylvania State University* — May, 2020

**Physics B.S.** –*West Chester University* — May, 2020

### EXPERIENCE

**Electrical Controls Engineer** – *Universal Machine Company* — May, 2020 – Present

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.
- Designed and edited the electrical schematics and panel layouts for large projects.

**Co-Founder** – *Vinegar Hill, LLC* — Jan, 2018 – Present

Vinegar Hill LLC is a small meadery run by five young professionals, founded to gain entreprenueral experience.
- Significant experience brewing malt and brewed beverages in a sanitary environment, and navigating the state licensing process.

### PROJECTS

**BusyBoredom.com** – A portfolio website using rust and webassembly for client-side routing. — Jan, 2020 – Present

**Gooba** – An event-driven spiking neural simulator written in rust. — Nov, 2019 – Present

**GetOffTheRoad** – A hackathon team project to notify drivers of problematic weather conditions. — Nov, 2019

**The Inebriator** – An automated bartender. — Mar, 2019

**JudgementBot** – A selfie-rating convolutional neural network. — Jan, 2019

**Bro Server** – A collection of self-hosted projects including an Ejabberd XMPP server. — Jan, 2019

## SOFTWARE PROFFICIENCY

### Development

| | |
|---|---|
| Rust | *10+ Small Projects* |
| C++ | *10+ Small Projects* |
| Python | *10+ Small Projects* |
| Tensorflow | *10+ Small Projects* |
| MySQL | *5+ Small Projects* |
| HTML/CSS | *5+ Small Projects* |
| Linux Command Line | *5+ Years* |
| Git Version Control | *5+ Years* |

### Engineering

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|---|---|
| AutoCAD 2020 | *300+ Hours* |
| Autodesk Inventor | *200+ Hours* |
| MATLAB | *200+ Hours* |
| LTSpice | *5+ Small Projects* |
| RSLogix 500 | *5+ Paid Jobs* |
| Studio 5000 | *5+ Paid Jobs* |
| GP-Pro EX | *2+ Paid Jobs* |
| FactoryTalk View | *5+ Paid Jobs* |
| Microsoft SQL Server | *1+ Paid Job* |