Charles Wilkin

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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 PROFICIENCY

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

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*