Charles Wilkin

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EDUCATION

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

Physics B.S. –*West Chester University*   May, 2020
└ Mathematics Minor

EXPERIENCE

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

UMC desgns 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 uncluding an Ejabberd XMPP server.   Jan, 2019

SOFTWARE

Development		Engineering	
Rust	10+ Small Projects	AutoCAD 2020	300+ Hours
C++	10+ Small Projects	Autodesk Inventor	200+ Hours
Python	10+ Small Projects	MATLAB	200+ Hours
Tensorflow	10+ Small Projects	LTSpice	5+ Small Projects
MySQL	5+ Small Projects	RSLogix 500	5+ Paid Jobs
HTML/CSS	5+ Small Projects	Studio 5000	5+ Paid Jobs
Linux Command Line	5+ Years	GP-Pro EX	3+ Paid Jobs
Git Version Control	5+ Years	FactoryTalk View	5+ Paid Jobs