

Charles Wilkin

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Address: 531 Highspire Rd.
Glenmoore, PA, 19343
USA

Email: CWilkin@Protonmail.com
XMPP: Charlie@BusyBoredom.com
Website: BusyBoredom.com
Github: GitHub.com/busyboredom

EDUCATION	Electrical Engineering B.S. – <i>Pennsylvania State University</i>	May, 2020
	Physics B.S. – <i>West Chester University</i>	May, 2020
EXPERIENCE	Electrical Controls Engineer – <i>Universal Machine Company</i>	May, 2020 – Present
	UMC designs and builds custom machinery for industrial automation. <ul style="list-style-type: none">• 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.	
PROJECTS	Co-Founder – <i>Vinegar Hill, LLC</i>	Jan, 2018 – Present
	Vinegar Hill LLC is a small meadery run by five young professionals, founded to gain entrepreneurial experience.	
	SobreMesa SCADA – A framework for web-based industrial control and data acquisition using only open-source tools.	Dec, 2020 – Present
	BusyBoredom.com – A portfolio website using rust and WebAssembly for client-side routing.	Jan, 2020 – Present
	PocketLawyer – A hackathon team project to automatically detect, record and transcribe abusive language (won 2 nd place).	Nov, 2020
	Gooba – An event-driven spiking neural simulator written in rust.	Dec, 2020
	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	Engineering
Rust..... 10+ Small Projects	Microsoft SQL Server..... 3+ Paid Projects
C++, CMake, GCC..... 10+ Small Projects	SQL Server Reporting Services..... 3+ Paid Projects
Qt..... 1 Small Project	MATLAB..... 200+ Hours
Python..... 10+ Small Projects	AutoCAD 2020..... 300+ Hours
Tensorflow..... 10+ Small Projects	LTSpice..... 5+ Paid Projects
MySQL, PostgreSQL, MSSQL..... 5+ Small Projects	Studio 5000..... 10+ Paid Projects
HTML/CSS..... 5+ Small Projects	GP-Pro EX..... 3+ Paid Projects
Linux Command Line..... 5+ Years	FactoryTalk View SE & ME..... 10+ Paid Projects
Git Version Control..... 5+ Years	Connected Components Workbench . 5+ Paid Projects