

Charles Wilkin

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EDUCATION	Electrical Engineering B.S. – Pennsylvania State University	May, 2020
	Physics B.S. – West Chester University └ Mathematics Minor	May, 2020
EXPERIENCE	Electrical Controls Engineer – Universal Machine Company	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.• 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 entrepreneurial experience. <ul style="list-style-type: none">• 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		
	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