## Charles Wilkin

Addres	s: 531 Highspire Rd. Glenmoore, PA, 19343 USA	Email: Website: Github:	Charlie@BusyBo BusyBoredom.c GitHub.com/bu	com
EDUCATION Electrical Engineering B.S. –Pennsylvania State University				
	Physics B.S. –West Chester University			May, 2020
Experience	<ul> <li>Electrical Controls Engineer – University</li> <li>UMC designs and builds custom machine</li> <li>Programmed PLCs, HMIs, and machinery according to each client</li> <li>Developed electrical schematic components for large \$1M+ project</li> <li>Automated onboard logging an regulatory requirements for complete</li> <li>Trained new engineers and we procedures to expedite onboarding</li> </ul>	ery for industrial description robotic arms to the control of the	automation. for custom ements. d electrical eeting strict nd reliability.	Jul, 2019 – Present
Industrial Machines	<b>COVID PACS Controllers</b> – Six industrial PACS controllers for the production of the COVID-19 vaccine.		Jun, 2021	
, and the same of	<b>Filler/Capper/Labeler/Loader</b> – A custom, fully-automated CFR 11 compliant packaging line for liquid pharmaceuticals.		Dec, 2020	
	<b>Rotavirus Inspection</b> – Fail-safe labeling, inspection and rejection for rotavirus vaccine tubes.		Nov, 2020	
	<b>Autoinjector Sleever</b> – Large one-of-a-kind machine for the May, 202 packaging/labeling of pharmaceutical autoinjectors.			May, 2020
	<b>Misc.</b> – Numerous miscelaneous labelers, presses, filter testers and other pharmaceutical machinery.			N/A
Projects	<b>SobreMesa SCADA</b> – A framework for web-based industrial control and data acquisition using only open-source tools.		Dec, 2020 – Present	
	<b>BusyBoredom.com</b> – A portfolio website made using a systems-level language compiled to WebAssembly instead of JavaScript.		•	Jan, 2020 – Present
	Gooba – An event-driven spiking neural simulator written in rust.		Dec, 2020	
	<b>Amplifier Optimizer</b> – A genetic algorithm that does your circuit design homework.			Apr, 2019
	<b>Bro Server</b> – A collection of self-hosted projects including XMPP, Bitwarden and Git servers.			Jan, 2019
SKILLS	<b>Hardware</b> – ControlLogix PLCs, Microl ProFace HMIs, Panel PCs, Cognex Cam	•		
	Databases – MSSQL, MySQL, Postgre	SQL.		
	<b>Software</b> – Studio 5000, FactoryTalk N XLReporter, Microsoft SQL Reporting S	,		

Updated: July 25, 2021