Charles Wilkin

Address: USA		Email: Charlie@BusyBoredom.com Website: BusyBoredom.com Github: GitHub.com/busyboredom		.com
EDUCATION	Electrical Engineering B.S. –Pennsylvania State University			May, 2020
	Physics B.SWest Chester University			May, 2020
EXPERIENCE	 Electrical Controls Engineer – Universal Mack UMC designs and builds custom machinery for i Programmed PLCs, HMIs, and robotic machinery according to each client's unique Developed electrical schematics and components for large \$1M+ projects. Automated onboard logging and report regulatory requirements for completeness, so Trained new engineers and wrote deprocedures to expedite onboarding. 	ndustrial ic arms ue require selecte ting, m security a	automation. for custom ements. d electrical eeting strict nd reliability.	Jul, 2019 – Present
Industrial Machines	COVID PACS Controllers – Six industrial PACS controllers for the production of the COVID-19 vaccine.		Jun, 2021	
	Filler/Capper/Labeler/Loader – A custom, fully-automated CFR 11 compliant packaging line for liquid pharmaceuticals.		Dec, 2020	
	Rotavirus Inspection – Fail-safe labeling, inspection and rejection for rotavirus vaccine tubes.		Nov, 2020	
	Autoinjector Sleever – Large one-of-a-kind machine for the packaging/labeling of pharmaceutical autoinjectors.		May, 2020	
	Misc. – Numerous miscelaneous labelers, pres other pharmaceutical machinery.	ses, filte	r testers and	N/A
PROJECTS	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 made using a systems-level language compiled to WebAssembly instead of JavaScript.		Jan, 2020 – Present	
	Gooba – An event-driven spiking neural simulat	or writte	n in rust.	Dec, 2020
	Amplifier Optimizer – A genetic algorithm that does your circuit design homework.		Apr, 2019	
	Bro Server – A collection of self-hosted projects including XMPP, Bitwarden and Git servers.		Jan, 2019	
SKILLS	Hardware – ControlLogix PLCs, MicroLogix PL ProFace HMIs, Panel PCs, Cognex Cameras, Ep			
	Databases – MSSQL, MySQL, PostgreSQL.			
	Software – Studio 5000, FactoryTalk View SE	,		

Updated: November 21, 2021

XLReporter, Microsoft SQL Reporting Services, GP-Pro EX.