Brice Lohman

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EDUCATION

WICHITA STATE UNIVERSITY
BS in Computer Engineering
Grad. Dec 2019 | Wichita, KS
Minor in Computer Science
Dean's List | S18, F18, S19
Academic Commendation | F17

BUTLER COMMUNITY COLLEGE
AS in Physics
Grad. Jul 2017 | El Dorado, KS
Order of the Purple Graduation Honors

KANSAS STATE UNIVERSITY
BS in Social Science
Grad. Jul 2012 | Manhattan, KS
Concentration in Psychology
Minor in American Ethnic Studies

COURSEWORK

UNDERGRADUATE
ARM7 Assembly • Object-Oriented C++ • Linux Essentials • Computer Architecture • Digital Logic Design • Microprocessor Design • Circuits • Electronic Circuits • Operating Systems • Computer Networks

SKILLS

LEADERSHIP
Delta Tau Delta: Gamma Chi
• President
• Vice-President
• Honor Board Justice

HARDWARE
Multimeter • Soldering • PCB Design/Fabrication • Arduino • SPI/I2C • Raspberry Pi • Serial Bus

OPERATING SYSTEMS
macOS • Debian/RedHat Linux • Windows • FreeBSD

SOFTWARE
Proficient:
Microsoft Office • Sublime Text
Familiar:
MultiSim • CadSoft Eagle • Git
Exposure:
Kicad

PROGRAMMING
Familiar:
HTML/CSS • C/C++ • Python • ARM7 Assembly • 68k Assembly • Bash Scripting

PROFESSIONAL EXPERIENCE

BUILDING CONTROLS & SERVICES | Design Engineer
Jan 2020 – Present | Wichita, KS
- Created easy to install firewall rules that save the company time per migration.
- Write/Troubleshoot PPCL code for various field panels that control HVAC, doors, and controls.
- Create building solutions for customers based upon agreed specifications.
- Use Microsoft SQL to house the Desigo database.
- Create graphical interfaces for clients given the blueprints of the building and what all equipment is controlled.

WORKFORCE LOGIQ | NetApp | QA Student Contractor
Jan 2018 – Jan 2020 | Wichita, KS
- Professionally trained in the Agile framework and utilized SCRUM tactics.
- Assist in the execution phase of the development process. Test experimental firmware releases through rigorous testing with various third party hardware to certify compatibility.
- Build host/array configurations using vendor HBAs, switches, and servers all connected via Fibre Channel, SAS, or iSCSI.
- Competent utilization of testing software based upon Python, PowerCLI, JIRA, CONFLUENCE, and shell scripts.
- Document and submit test results and bug reports to the correct teams to implement patches to firmware.

USD 375 | Technology Specialist: Level 2
Aug 2013 – Jul 2017 | Towanda, KS
- Designed a cascade of NAS servers (Windows and FreeBSD) across the district, using Cobian Backup, for catastrophic failure prevention in order to reduce time aggregating restore data.
- Set up centralized Clonezilla servers at each building to house disk images for restoring computers anywhere in the district.
- Wrote specialized registry files to be deployed to groups of users through Group Policy Manager within Windows Active Directory.
- Maintained and edited the Circle High School's website using HTML/CSS running on Windows Server 2003 with IIS.

UNDERGRADUATE RESEARCH

AUTOMATED WIFI UMBRELLA NETWORK
Spring/Fall 2019 | Wichita State University
The goal of the project was to create a smart patio/beach umbrella that could be attached to WiFi and be controlled remotely. Both the server/front-end and firmware were written in Python3. The umbrella node utilized a Raspberry Pi Zero as well as external sensors attached to an ADC that fed the controller over the SPI bus. Motion was driven by an electric motor for open/close actions. An anemometer was used as a fail safe to automatically close the umbrella once an average wind speed exceeded user defined values to avoid damage.

MICROBIAL DNA ASSEMBLY AUTOMATION PIPELINE
Summer 2019 | KINBRE Bioinformatics
Created automation software, using Python3, to automate the pipeline that sequences and assembles a DNA sample from collection to finish without user intervention for Kansas State University.

(Resume with Additional Work History is Available Upon Request)