🚦 647-571- 📔 📼 samiibnjamil14@gmail.com 🍴 🖸 github.com/samiibnjamil 🍴 🛅 linkedin.com/in/samiibnjamil

Sami Ibn Jamil nto. Ontario. M3J 3R9

Personal Profile

Highly skilled and resourceful Electrical Engineer with a superb work ethic and engineering research background. Strong multitasker able to handle simultaneous electrical design and repair tasks with full accuracy and efficiency. Interested in R&D, Robotics, Embedded Systems, Automation & IoT).

Skills

Programming Ladder Logic, Python (Pandas, PyTorch, NumPy etc.), Verilog (VHDL), Java, C/C++, HTML/CSS, JavaScript, SQL. Engineering PLC, Electrical Design, Auto CAD, 3D- Printing, MATLAB, Cadence, Altium, PCB Design, Debugging, PSim, Analog Circuit. Scada, FPGA, RTOS, ROS, Ansible, Docker, MOTT Request, Circuit Analysis, Linux, Shell (Bash/Zsh), Firebase, Git. Industry Soft Skills Leadership, Testing, Data Collection, Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation. Certification Laser Safety , WHMIS, 60 WPM certificate (Ratatype), Embedded Systems-Bare metal programming (Udemy).

Work Experience

Technical Support Engineer

Connect Tech Inc.

- Provided timely and effective first-line assistance to external engineers and technical customers. Leveraged experience with embedded systems, including NVIDIA Jetson, GPUs, Arduino, and Pi, to address their needs.
- Utilized cutting-edge technology tools, including integrated development environments and high-bandwidth oscilloscopes, to solve complex problems. Applied low-level C programming skills, device driver familiarity, and kernel modifications where necessary.
- · Configured, tested, and replicated customer hardware, software, networking, and application issues. Conducted thorough quality assurance on prototypes across various operating systems and test environments.
- · Collaborated with hardware, software, and mechanical engineering teams to resolve issues and contribute to design development. This included the ability to read electronic schematics.

Linux System Administrator

Faculty of Science, York University

- · Assist with the support of classroom technology, servers and computer labs.
- Writes scripts for automation using Ansible to streamline tasks and improve efficiency.
- Deploys, Documents, tracks, and maintains computers, Linux servers and A/V equipment's.
- Manages and supports Linux servers, software applications, security, and network configuration.
- Provides technical support, Troubleshoots and resolves hardware and software issues for workstations and networks.
- Technical Skills: Ansible, Docker, Linux, ITSM, Wireshark, Microsoft SCCM, PowerShell, VBScript, MS Office Suite & Python.

Facility Assistant (3D Printing/ Laser Cutting Lab)

Lassonde School of Engineering, York University

- Held seminars and educated students about 3D modeling using Solid Works.
- Setup and Optimize Vector files for optimal Laser cutting, Reduced waste materials by 40%.
- Designed, calibrated, optimized 3D Models. Helped to reduce at least 30% of filament required.
- Managed, diagnosed and troubleshot multiple 3D printers, Laser Cutters. Improved 3D printer run time by 25%.

Projects

5 D.O.F. Robot ARM

Personal Project

- Made the arm do regular task like pick and place objects. Improved accuracy by 60%.
- 3d Printed, Configured, tested and assembled the arm, also used a microcontroller and motor driver to control it.
- Technical Skills: Mechatronics, C/C++, Arduino, ROS, Forward/Inverse Kinematics, Automation, Drivers, & Python.
- Soft Skills: Arduino, Software Testing, Fixing bugs, Design analysis, Optimization, Teamwork, Presentation skills, Report writing.

Power Monitoring Device (IoT, Mesh System)

Engineering Capstone Project

- Worked with Arduino, Raspberry Pi and other ARM Cortex-M based Microcontroller to reduce processing times by 50%.
- Analysed data and discovered pattern in the data that show Power usage trends. Optimized Power consumption by 10%.
- Interfaced with hardware and sensors using communication protocols like I2C, UART and SPI, Improving Data accuracy and stability by 30%.
- Technical Skills: PWM, FFT,LPF C/C++, ADC, DAC, Data Structure , 3D Design, Engineering analysis, PCB Design , Power supply optimization.

Education

Lassonde School of Engineering, York University

B.Eng in Electrical Engineering

• Computer Science (minor)

Interested in Robotics & Automation

EIT UNDER APEGA

Toronto, ON, Canada Sept, 2017 - April, 2022

Toronto, ON, Canada

Toronto, ON, Canada

Sept, 2023 - Present

Toronto, ON, Canada

April 2022

Toronto, ON

Guelph, ON

June, 2023 - Present

Sept, 2021 - June, 2023

June, 2019 - Feb, 2021