Ehab Haque

+1 (647)-760-5047| ehabhaque1@gmail.com | http://www.linkedin.com/in/ehab-haque

Technical Skills

- **Development:** C/C++, Linux, Java. BASH, Git, Python, AutoCAD, HTML5, CSS3, Dart, MATLAB, PowerBI, ETAP, GUI Design
- **Electrical Tools:** Oscilloscope, Function Generator, Power Supply, Multimeter, Soldering Iron, Vernier Caliper, Power Tools

Education

BEng Electrical Engineering | *York University* | *September 2018 – April 2024*

- Graduated with honours.

Experience

Lassonde Motorsports - Electrical Systems Designer | *Sept 2023 - April 2024*

- Participated in developing key vehicle components related to power distribution, telemetry, and control systems.
- Researched data acquisition methods to enhance system performance and reliability.
- Created comprehensive documentation and schematics for electrical systems, including wiring diagrams, component specifications, and system configurations.

YURS Rover Design Team - Electrical Systems Designer | *Sept 2022- April 2023*

- Collaborated in designing and prototyping two custom PCBs in KiCAD, integrating a microcontroller to enable I2C/UART to CAN communication between GPS, compass modules, and the central control module.
- Collaborated on embedded C code development for the microcontroller, facilitating I2C and UART data transmission from external modules.
- Engaged proactively in team discussions, brainstorming sessions, and collaborative problem-solving activities.
- Participated in two 4-day rover competitions, diagnosing issues and improving rover functionality to meet specific requirements.

Tech Rehab – IT Specialist | *May 2020 – Present*

- Effectively identified and resolved network issues onsite and remotely across modems, servers, routers, switches, and mesh Wi-Fi systems.
- Skilled in internet and telecom technologies, including domain management, DNS, TCP/IP, email systems, cloud solutions, backup and storage, VoIP, and Microsoft Office Suite, consistently reducing system downtime by 20% through proactive maintenance and troubleshooting.
- Applied expertise in Windows, macOS, iOS, and Android operating systems to optimize system performance and enhance user experience, reducing average support ticket resolution time by 25% for issues related to these platforms.
- Proactively suggested customer upgrades, optimized efficiency, and implemented future-proof solutions, resulting in a 25% reduction in project completion time and a 20% increase in company sales.

York University (Lassonde) - IT Technician | *October 2022 – April 2024*

- Executed software rollouts across 40+ instances in high-capacity labs, utilizing advanced management tools to ensure seamless integration and reduce software deployment time by 50%.
- Proficient in troubleshooting and resolving complex technical issues with a 90% first-call resolution rate.
- Improved IT issue resolution efficiency for students and senior staff by systematically collecting, organizing, and prioritizing tasks based on established criteria and prior experience, reducing response time and increasing satisfaction.

Projects

Capstone Project – YFS Wellness App: iOS & Android Development

- Led the development of a custom app for the YFS Wellness Centre at York University, increasing student engagement by 25% by implementing features such as a Google Calendar for upcoming events, a Database for updating resources, a Pomodoro timer, and interactive games.
- Managed end-to-end design and deployment on iOS and Android, ensuring broad accessibility and smooth functionality.
- Collaborated with team members to drive discussions and deliver presentations, ensuring a timely, high-quality delivery.

Renewable Energy Systems Project – Tesla Charger & Wind Turbine Implementation at YorkU

- Designed a smart EV charging system for YorkU's Arboretum Parking Garage for 60+ EVs daily, focusing on efficient energy use and reduced peak-time costs.
- Integrated wind turbines using SAM(Wind Power- System Advisor Model) to support EV charging needs, ensuring energy surplus could supply the Arboretum Parking Garage or power grid, lowering operational costs.

Smart Magic Mirror Project – Custom Wooden Frame, Plexi Glass, LCD & Raspberry Pi Implementation

- Built a smart Magic Mirror using a Raspberry Pi, coding custom open-source modules to display real-time data like weather, calendar, and Toronto traffic. Designed and constructed a custom frame and assembled the entire hardware system.

Custom RGB Headlights Project - Custom RGB Controllers, Power Tools, Soldering

- Designed and built custom headlights, leveraging advanced electrical and mechanical skills to integrate LEDs with a custom control system, creating dynamic and customizable lighting effects.