Saffat Sharif

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Education

University of Regina — Regina, SK
Bachelor of Applied Science in Electronic Systems Engineering — *Expected May 2027*

Skills

Programming: C, C++, Arduino C, Python, C#, SQL, MATLAB
Software: AutoCAD Electrical, PSpice, MATLAB/Simulink, Altium Designer, Solid Edge, SolidWorks, Arduino C, Visual Studio, Google Suite, MS Word, MS Excel, PowerPoint
Instrumentation: Arduino Uno, hardware debugging, circuit design, electrical design, breadboarding, relays, oscilloscope, digital multimeter, function generator, embedded systems, panel drafting, protection logic

Experience

Cougar Racing – Electrical Subsystem Member — Jan. 2025 – Present
University of Regina – Cougar Racing SAE Team

- Collaborated with **10+** dedicated members to wire and test the vehicle's electrical telemetry and safety systems
- Maintained rigorous logs of design changes, component sourcing, and test results, aligning to recordkeeping expectations
- Participated in weekly progress meetings to ensure project alignment and resolve cross-functional issues
- Contributed to field troubleshooting and live testing, demonstrating readiness for hands-on construction site environments

Projects

GridGuard Project – Smart Substation Monitoring Dashboard — Jul. 2025
Independant Project

- Built a SCADA-style dashboard using **C#** in Visual Studio to simulate real-time substation electrical conditions, providing a robust platform to analyze power systems
- Implemented visual alert systems for electrical faults to reinforce safety monitoring principles
- Documented system architecture and test reports, aligning construction site technical reporting processes.

Control Panel Schematic Design — Jul. 2025
Independant Project

- Designed and documented the design with breakers, relays, and motor controls using **AutoCAD Electrical** to develop comprehensive schematics
- Reviewed wire routing, labeling, and component placement to simulate real-world industrial environments

Drop Test Machine – 3D Package Impact Simulation — Mar. 2024 – Apr. 2024
Engineering Graphics Course – Group Project

- Collaborated in a team of 4 using **CAD** (Solid Edge), simulating packaging drop heights from 0.5 to 1.5 meters
- Modeled structural components with 60% higher load tolerance than baseline package weight, improving durability
- Presented design **documentation** materials to demonstrate load distribution, failure scenarios, and safety factors

Autonomous Obstacle-Avoiding Robot — May 2023 – Jun. 2023
Group Project

- Programmed an Arduino-based robot to detect and avoid obstacles using ultrasonic sensors and motor control logic
- Integrated real-time sensor feedback loops to ensure responsive path adjustment during navigation
- Demonstrated field-oriented **problem solving** and embedded diagnostics in a dynamic, test-heavy environment

Awards & Certifications

AutoCAD Electrical Essentials — Jul. 2025
SourceCAD, Online Course

- Granted the certification for demonstrating proficiency using AutoCAD Electrical for designing and documenting electrical systems

Entrance Scholarship — Jun. 2023
University of Regina, Regina, SK, Canada

- Awarded $1000 Entrance Scholarship for outstanding academic performance