

Shafayet Muntasir

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EDUCATION

B.S.E. in Computer Engineering 08/2025 – 05/2029
University of Michigan - 3.6 GPA
Relevant Coursework:
Solar Energy and Self-Powered Wireless Systems, Intro to Computers and Programming, Data Structures, Discrete Math

PROJECT / RESEARCH EXPERIENCE

MRacing (Formula SAE Electric) 08/2025 – Present
Vehicle Software and Instrumentation & Powertrain Member

- Prototyped a lap-trigger data acquisition system using breadboards and photosensors; analyzed voltage drops across optical components to accurately detect vehicle passing for lap timing.
- Earned **Level 2 High Voltage certification** for 600V system maintenance and completed **Altium Designer training** for automotive **PCB layout**; trained in powertrain wiring **harness assembly**, including crimping and strain relief.
- Gaining exposure to **CAN bus communication** and **embedded control strategies** through weekly technical design meetings and shadowing senior members.

Michigan Embedded Systems' Hub (MESH) 01/2026 – Present
Member & Authorized Laboratory User

- Attending technical workshops on PCB design fundamentals, covering schematic capture, component footprint selection, and board layout.
- Authorized to operate Prusa i3 MK3S printers in the Leinweber & BBB labs; utilizing **PrusaSlicer** and **G-code** generation to fabricate custom enclosures for electronics.
- Developing hardware fabrication skills through hands-on **Surface Mount (SMT) and Through-Hole soldering** training sessions to support embedded systems projects.

ENGR 100: Solar Vehicle & Automated Irrigation 01/2026 – Present
Hardware/Prototyping Lead

- Designed and 3D printed custom chassis and structural components using **TinkerCAD** and **PrusaSlicer** to optimize weight and aerodynamics for a custom solar-powered vehicle.
- Currently prototyping an automated, moisture-sensing foundation irrigation system specifically engineered for clay-heavy soils; integrating moisture sensors with microcontrollers for automated fluid control.

WORK EXPERIENCE

Computer Consultant II - Shift Lead 08/2025 – Present
University of Michigan - Information and Technology Services

- Selected as a Consultant II (Mentor) to train new staff, provide peer feedback, and handle advanced customer escalations.
- Provided in-person and virtual technical support to resolve hardware/software issues for personal and departmental tickets.
- Delivered specialized services including poster printing, laptop loaner programs, and technology sales/repairs.
- Worked alongside other ITS workers of various departments to deliver quality customer service.

Manager 06/2024 – 09/2025
Saroki's Crispy Chicken and Pizza

- Directed staff through full-day operations (~\$4,000+ revenue), handling nightly financial deposits and food safety compliance.
- Launched a partnership with local shelters to distribute 250+ meals to youth in need.
- Established a record-keeping process for donations that secured ~\$3,000+ in gift-in-kind tax write-offs.

ACADEMIC PROJECTS

Object-Oriented Card Game Engine (C++)
Built a scalable, fully functional Euchre simulation demonstrating strong OOP principles, polymorphism, and modular system design.

Image Processing Algorithm (C++)
Developed a content-aware image resizing program (Seam Carving) utilizing matrix data structures, pointer arithmetic, and dynamic memory allocation to process visual data.

NLP/Machine Learning (C++)
Engineered a Natural Language Processing (NLP) classifier utilizing a Bag-of-Words model and Bayesian probability heuristics to efficiently ingest, train on, and categorize large-scale textual datasets.

Routing/TSP (C++)
Developed an optimized routing engine to solve the Traveling Salesperson Problem (TSP), implementing Branch-and-Bound algorithms and Minimum Spanning Trees (MST) to process complex graph data and minimize computational latency.

SKILLS AND CERTIFICATIONS

• **Languages:** C++, Python, MATLAB

• **Hardware & CAD:** PCB Design, Altium, Soldering (SMT/Through-Hole), TinkerCAD, PrusaSlicer

• **Certifications:** CompTIA IT Fundamentals Pro | CompTIA Security Pro