

Seri Khoury

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EDUCATION

University of Michigan-Dearborn

Dearborn, MI

Bachelor of Engineering in Electrical Engineering | GPA: 3.5/4.0

Aug 2025 - Apr 2029

- **Relevant Coursework:** Calculus I-III, Physics I-II, Digital Systems, Circuits, Differential Equations, Signals and Systems, Computer Methods for ECE

TECHNICAL SKILLS

PCB / ECAD: Altium Designer, KiCad, schematic capture, PCB layout, component placement, power/signal routing, DRC

Hardware: Arduino, soldering, wiring, oscilloscope, sensors, DC-DC converters, switched-mode power supplies

Protocols / Programming: I2C | C++, Python, MATLAB

CAD / Languages: Fusion 360, AutoCAD | English, Arabic

ENGINEERING PROJECTS

Multi-View Camera Interface PCB | Altium, I2C, Deserializer, Power Protection

Livonia, MI

PCB Designer

Aug 2026

- Designed and built a **multi-camera interface PCB** for surround-view/ADAS applications, routing camera inputs through a deserializer interface to an external processing board for calibration, distortion correction, and image stitching.
- Completed schematic capture and PCB layout in Altium Designer, integrating **1.8 V/3.3 V I2C level translation**, LM74500-Q1 power protection, decoupling, connectors, a ground plane, and DRC-checked power/signal routing.

Rocket Power Distribution & Safety PCB | KiCad, Altium, DC-DC Converters, BMS/IMD

Dearborn, MI

Project Designer

Sep 2025 - Nov 2025

- Designed a rocket-club PCB to centralize avionics power distribution, charging, and battery safety, integrating **three DC-DC converter stages**, a switched-mode power supply, BMS circuitry, and IMD-style safety monitoring.
- Developed the schematic, PCB layout, and power-path plan to organize converter outputs, charging interfaces, and protection circuits for design review, bench testing, and future rocket integration.

Autonomous Robot | Arduino, C++, Sensors, CAD

Dearborn, MI

Team Lead

Oct 2025 - Dec 2025

- Led a **4-member team** to design and build an autonomous robot for obstacle detection and path correction; assigned mechanical, electrical, and programming tasks from concept through working prototype.
- Programmed motion logic in **C++** using sensor feedback, then debugged wiring, motor response, and control behavior until the robot completed repeatable autonomous movement trials.

ENGINEERING EXPERIENCE & LEADERSHIP

Michigan Aerospace Association (MASA) - UMich-Dearborn

Dearborn, MI

Airbrakes Team - PCB Design & Routing

Jul 2026 - Present

- Design and route PCBs in **Altium** for the Airbrakes subsystem, translating electrical requirements into schematic capture, component placement, power/signal routing, connector integration, DRC-checked layouts, and board review for rocket electronics.

Hack Dearborn 5

Dearborn, MI

Operations Team Member

Apr 2026 - Present

- Support operations for a student-run hackathon by coordinating setup, participant flow, communication, and troubleshooting so teams can focus on building and presenting technical projects.

Google Developer Groups on Campus (GDGC) - UMich-Dearborn

Dearborn, MI

Snow Elementary STEM Outreach Volunteer

Apr 10, 2026

- Volunteered during a one-day elementary STEM outreach event, helping run hands-on activities focused on teamwork, signals, debugging, and introductory coding concepts.

ADDITIONAL EXPERIENCE

Amazing Mex Foods QDOBA

Livonia, MI

Cook / Line Server / Cashier

Jun 2023 - Aug 2025

- Worked in a fast-paced restaurant for more than two years, handling food preparation, customer service, transactions, and team coordination during high-volume shifts while maintaining accuracy and food-safety standards.