**Talha Khan**Electrical Engineering student | Intelligent Systems Club Executive Member  
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### **SUMMARY**

Electrical Engineering student with hands-on experience in electronics diagnostics, repair, and system integration. Skilled in Python, CAD design, and technical troubleshooting. Interested in robotics, embedded systems, and electrical optimization. Seeking to apply problem-solving, teamwork, and engineering skills in a practical, innovation-driven environment.

### **EDUCATION**

**University of Michigan —** *Electrical Engineering, BS* | May 2024 - May 2028

**Wayne County Community College —** *Science*, AS| Sept 2021 - May 2024

### **EXPERIENCE**

**FIRST Robotics Competition —** **Mentor |** *Team 6190*  September 2021 - Present

* Directed and guided a team in designing and assembling a competition-grade robot to tackle intricate engineering challenges.
* Facilitated hands-on workshops focused on mechanical design, electrical integration, and fabrication techniques to strengthen team expertise.
* Organized and led instructional sessions, mentoring high school students in mechanical systems, critical thinking, and teamwork.

**Paymore Electronics — Tester |** *VOLT RETAIL LLC* July 2024- September 2024

* Diagnosed, repaired, and optimized laptops, gaming consoles, and other electronics for resale.
* Conducted hardware/software repairs and quality assurance to maximize performance and value.
* Managed inventory, analyzed market trends, and implemented pricing strategies to drive sales.
* Met daily quotas in a fast-paced environment while maintaining high-quality standards.

### **PROJECTS**

**Project Phoenix — Autonomous Go Kart | *Intelligent Systems Club***

* Contributed to the development of the Go Kart for an autonomous karting competition.
* Constructed and assembled the wire harness for Project Phoenix, ensuring proper routing and secure connections.
* Collaborated with team members to integrate electrical components, maintaining system reliability and performance.
* Followed technical schematics to organize and install wiring efficiently, optimizing functionality.

**FIRST Robotics Competition — Team Captain**

* Led a team in designing and constructing a competition-ready robot to complete complex challenges.
* Developed hands-on experience with mechanical design, electrical systems, and fabrication techniques.
* Collaborated with teammates to strategize, troubleshoot, and optimize robot performance.
* Gained practical exposure to STEM concepts, problem-solving, and project management in a fast-paced environment

**Engineering 100 — Project Lead**

* Led project planning and managed team timeline to ensure on-time completion of deliverables.
* Designed key components of the project while coordinating team efforts across multiple engineering disciplines.
* Served as primary presenter for both Preliminary Design Review (PDR) and Critical Design Review (CDR), effectively communicating technical concepts and project progress.
* Maintained detailed documentation and ensured all design decisions aligned with project goals and constraints.

### **SKILLS**

* **Languages:** HTML (Intermediate), CSS (Intermediate), Python (Learning), JavaScript
* **Tools:** CAD/ Fusion 360, MakerBot Splicing, Linux development (Intermediate), MySQL, MS Office; PowerPoint, Word Excel.
* **Other:** Teamwork, Robotics, Engineering Projects, Problem Scoping/Solving and Leadership.

### **AWARDS & CIRTIFICATIONS**

* **Dean’s List**
* **High School Honor Roll Diversity**
* **Mentor Collective Certification:** Equality, and Inclusion (DEI)

### **STUDENT ASSOCIATIONS & CLUBS**

* **Intelligent Systems Club**
* **IEEE**
* **Muslim Student Association**
* **Phi Theta Kappa**
* **The National Society of Leadership and Success**