

Jawad R Mohamed

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EDUCATION

Cornell University (Major: Mechanical Engineer/Minor: Business)

August 2024 – Current

EXPERIENCE

Member Of Cornell Racing (Formula SAE)

February 2024 - Current

- Contributed to design, manufacturing, and testing of the Formula SAE Electric racecar with focus on the Unsprung subsystem.
- Designed & CAD-modeled an off-car camber-compliance rig to measure suspension and unsprung compliance under load
- Designed a precision baseplate with integrated suspension points, aligning front and rear clevis mounts to mirror the car's suspension geometry accurately.
- CAD dummy steering links/clevises to replicate on-car geometry; applied controlled quasi-static lateral loads along a defined load path for repeatable testing.
- Executed gearbox tests across operating ranges, analyzed data, worked on dynamometer and recommended design updates
- Reviewed various insert options on McMaster and selected a key-locking insert, then CAD the cooling sleeve to integrate the new insert geometry

Engineering Intern at Visual Citi

June 2025 - August 2025

- Gained hands-on experience using EnRoute software to upload jobs to machines
- Operated and was assigned jobs on CNC table mill, Waterjet, 3D Printer
- Used Rhino 3D modeling software to create files for machine
- Collaborated with design and production teams and ensured timely job completion.

Member of National Society of Black Engineers

August 2024 - Current

- Attended meetings with other peers to engage in conversation and networking
- Engaged in Professional Development Workshops that helped build skills like leadership and communication

Catalyst Academy

July 2023

- Researched programmable plant systems with CROPPS and glucose sensors for plants
- Created and programmed water moisture sensors with ideas in Electrical Engineering, Mechanical Engineering, Computer Engineering, and Materials Science

Columbia Engineering's Summer High School Program for Engineers (SHAPE)

July 2022

- Learned concepts about Electrical Engineering, Mechanical Engineering, and Computer Engineering
- Designed solar arrays for solar oven research project and tested efficiency with custom computed sensors

Private Math Tutor

January 2022 - Current

- Demonstrated a one-to-one tutoring system with three underprivileged students in Guyana
- Constructed lesson plans and practice problems for future exams
- Focused on concepts in Algebra I, Algebra II, and Calculus

Personal Project

August 2023 - Current

- Work on my own and other cars, like the Infiniti Q50 Redsport. Installed things like: air suspension, exhaust, intakes, heat exchanger, downpipe, etc
- Developed critical thinking skills and engineering mindset through each project/task

LEADERSHIP

Leader/Member of Tech Team

September 2020 - June 2024

- Communicated with students in my school and recruited 25 kids to the team
 - Administered all devices in school building from computers, ipads, etc and troubleshoot all technical issues
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HONORS and AWARDS

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| • McMullen Scholar | • Ryan Scholar | • Bridges Scholar |
| • National Honor Society | • Principals List | • PSSP Graduate |
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SKILLS

Proficient in Rhino and Autodesk CAD, Experienced with EnRoute software, CNC machine operation, 3D printing, Laser cutting, Waterjet cutting, Mechanically inclined, Efficient in Arabic, Understands Java and Python, Works well with spreadsheets, Group and individual instruction, Collaborative, Positive attitude, Effective communication, Innovative, Optimistic, Experienced with power tools