

Ali Hashim

(847) 650-3718 | hashim3@illinois.edu | alishashim.com | linkedin.com/in/alishashim

EDUCATION

University of Michigan Ann-Arbor

Master of Engineering in Global Automotive and Manufacturing Engineering

Ann Arbor, Michigan

August 2025 – Present

University of Illinois Urbana-Champaign, Grainger College of Engineering

Bachelor of Science in Mechanical Engineering, Minor in Business - GPA: 3.66/4.00

Champaign, Illinois

May 2025

WORK EXPERIENCE

Ford Motor Company

Ford College Graduate, Vehicle Architecture

Dearborn, Michigan

July 2025 – Present

- Support next-generation F-150 development by performing Digital Pre Assembly requirement checks for tire packaging
- Oversee engineers to ensure deadlines are met and provide technical support for design modifications to meet requirements

Engineering Intern, Vehicle Architecture

May 2024 - August 2024

- Directly influenced next-generation F-150 design decisions by performing physical vehicle ground clearance testing, co-authoring test reporting, proposing packaging design solutions, and presenting findings to upper management
- Created internal regulatory compliance CAD models used to guide the design team in meeting Ford and global standards
- Independently designed packaging solutions for electronic modules, underbody components, and powertrain prototypes

Navistar Inc.

Engineering Intern, Vehicle Architecture

Lisle, Illinois

May 2023 - August 2023

- Developed full vehicle CAD models to optimize manufacturing processes for over \$400,000 in Class 8 truck configurations
- Conducted part interference studies on full vehicle engineering models to validate correctness and ensure error-free data
- Expedited next-gen school bus development program by meticulously tracking engineering tasks, ensuring their timely completion, and following up with fellow team members with effective communication

North Lake Cardiovascular Center

I.T. Specialist

Gurnee, Illinois

January 2016 - Present

- Provide on-call I.T. support for a cardiology clinic with 15+ employees, ensuring uninterrupted daily operations
- Manage purchasing and maintenance of all technical and medical equipment, including over 25 computers and servers
- Resolve various hardware, software, and network issues to minimize downtime and improve day to day office efficiency

PROJECT EXPERIENCE

Senior Design Course

Impact Resistant Materials for Football Helmets

Champaign, Illinois

August 2024 - December 2024

- Developed multilayered material configurations for football helmets, validated through finite element analysis (FEA) and physical testing for improved impact resistance and energy dissipation
- Designed and built a custom Head Injury Criterion (HIC) testing rig, using accelerometer data for assessing performance, while optimizing resources to stay within a \$1,500 budget

Illini Formula Electric

Drivetrain and Suspension Sub-teams

Champaign, Illinois

August 2021 - August 2023

- Collaborated in a small team to reengineer a lightweight planet carrier for a custom gearbox and redesigned steering rack mounting and installation strategy to guarantee compliance with FSAE guidelines

CERTIFICATIONS

- Engineer in Training (EIT) – Fundamentals of Engineering (FE) Exam, Mechanical

2025

SKILLS AND INTERESTS

- Technical Skills: Python, CAD (Fusion 360, Siemens NX), Ansys (Explicit Dynamics), Dassault 3DEXperience, Siemens Teamcenter, React, JavaScript.
- Languages: English, Arabic (conversational), Spanish (limited working)
- Interests: Soccer, Real Madrid, Formula 1, Automotive Innovation, Investments