Hadi Almadani

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EDUCATION

University of Massachusetts Amherst — Amherst, MA
Bachelor of Science in Mechanical Engineering — Expected May 2026

- Certified SolidWorks Associate (CSWA) | Issued: June 3, 2024
- Cumulative GPA: 3.5/4.0 | Dean's List: Spring 2025
- Benjamin E. Thomas J. Zampell & High Demand Scholarship Recipient
- Achievement Concierge Team Member – Provided academic resources, organized events, and supported student success

EXPERIENCE & LEADERSHIP

SubCom — Newington, NH
Process Engineering Intern — June 2025 – Sep 2025

- Developed troubleshooting flowcharts and reference guides for the Power Conductor department, reducing downtime.
- Created process flow diagrams for line components (ex: strander, welder & caterpuller) to visualize key operations and identify bottlenecks.
- Collaborated with process engineers and technicians to document root causes and propose corrective actions.

UMass SuperMileage Vehicle Team (SMV) — Amherst, MA
Engine Team Member — September 2024 – May 2026

- Collaborated with the engine team to design and optimize custom engine components using SolidWorks with GD&T.
- Conducted ANSYS FEA to assess stress concentrations, improving durability and reliability.
- Machined and 3D printed mounts and housings, reducing weight and improving assembly efficiency.

The Moving Solution — Beverly, MA
Co-Founder — January 2023 – January 2024

- Co-founded and operated a moving services business, generating $30K+ revenue during the first quarter.
- Managed operations, customer relations, and employee training.

PROJECTS

SMV Engine Project — March 2025

- Designed and modeled custom engine components in SolidWorks using GD&T to improve fuel efficiency for the Shell Eco-Marathon.
- Conducted FEA in ANSYS to verify structural integrity and reduce component failure risk.
- Machined and 3D printed mounts and housings, improving fit and streamlining vehicle assembly.

Mechanical Clock with Custom Gear Train — July 2024

- Designed a mechanical clock with a custom-calculated gear train for precise timekeeping.
- Modeled over 20 interlocking components in SolidWorks using PLA and PETG, balancing strength and printability.
- Assembled and tested the clock, achieving smooth operation and verified accuracy over a 24-hour cycle.

SKILLS

CAD, Analysis & Fabrication Tools: SolidWorks (CSWA), ANSYS, GD&T, FEA, 3D Printing, CNC
Programming: MATLAB, Python, R, Simulink, Java, HTML, C++, Arduino, Raspberry Pi
Languages: Fluent in Arabic and English