

KEVIN ABOU CHEDID

Chicago, IL | (312) 885 8867 | kabou@uic.edu | www.linkedin.com/in/kevin-abou-chedid

EDUCATION

University of Illinois-Chicago (UIC), Chicago, IL
BS in Mechanical Engineering, Minor in Electrical Engineering

EXPECTED: May 2028
GPA 3.92/4.0

SKILLS

Computer: SolidWorks, AutoCAD, MATLAB, Arduino, AutoFluid, Excel, Python, Claude Code.

Technical: Woodworking, Soldering, Safety testing, On-site observation, Surveying

Languages: Arabic (Native), French (Native), English (Native).

EXPERIENCE

Illinois Department of Transportation, Ottawa, IL | *Project Implementation Engineering Intern* **May 2026 - August 2026**

- Redesigned bridge deck elevation proposed profile in ORD using 3 methods, improving alignment with plan specs
- Conducted yield, speed, and temperature checks on HMA paving up to 3,000+ tons/day, verifying tonnage
- Ran pre-pour dry runs and depth checks for latex concrete overlay, achieving accuracy within 0.0075 ft of target
- Performed GPS/total station surveys for scarification and overlay areas, building OpenRoads pay estimates

Names SAL, Antelias, Lebanon | *Mechanical Engineering Intern* **June 2025 - August 2025**

- Designed a complete HVAC and plumbing system for a six-story villa, including a detailed equipment schedule, shop drawings, pipe and vent sizing, equipment selection, and cost optimization to meet a \$200,000 budget.
- Produced AutoCAD shop drawings to engineering standards for a \$5M hotel project in Faraya, Lebanon
- Proactively led equipment pricing and purchase order preparation, contributing to overall project cost management
- Conducted site visits to verify HVAC implementation matched engineering design specifications

The Seara Group, UIC, Chicago, IL | *Undergraduate Research Intern* **January 2026 - May 2026**

- Built and ran Python Monte Carlo simulations of a 16x16 lattice with 1,000,000 iterations to graph average spins, magnetism levels, energy levels, and heat capacity from different initial arrangements.
- Statistically found ferromagnet critical temperature $T_c = 2.27 \text{ J/Kb}$, via magnetism levels and heat capacity analysis
- Used the UIC HPC (ACER) to run simulations with a 64x64 lattice, and 10^9 iterations for high accuracy results.

Engineering Learning Center (ELC), UIC, Chicago, IL | *Student Teaching Aide II / Peer Tutor* **January 2026 - Present**

- Selected as a Strength of Materials tutor while enrolled in the course due to outstanding academic performance.
- Tutor for Statics, Thermodynamics, Probability and Statistics, Financial Engineering, and MATLAB
- Improved student grades by an average of 45% for statics, and 25% for Strength of Materials.

PROJECTS

Ski Drone - Mechanical Engineering Design, UIC, Chicago, IL **January 2025 - May 2025**

- Built an Arduino-powered DC motor drone designed to stall mid-air off ramp.
- Assembled 3D-printed parts (SolidWorks) and wrote C++ code meeting project specs

Driveable Couch - ASME RnD Build, UIC, Chicago, IL **September 2025 - Present**

- Integrated a UTV-style electrical system (lights, blinkers, horn) and installed a 212cc engine, including break-in, clutch, and throttle setup
- Built the wood frame, steering, and axle assembly, and mechanically connected the engine to the axle

AFFILIATIONS

American Society of Mechanical Engineers (ASME), UIC, Chicago, IL | *Team Leader* **September 2025 - Present**

- Led RnD technical project meetings twice a week for planning, building, and testing
- Organized fundraisers to build team budget, set up monthly social events and technical workshops
- Drive board-level decisions and strategy for future projects, and present at GBMs

Society of Hispanic Professional Engineers, UIC, Chicago, IL | *Mentor* **August 2026 - Present**

- Meet one-on-one with mentee biweekly to discuss and guide their professional and social development
- Support mentee in strengthening leadership skills through goal-setting, reflection, and ongoing feedback

ADDITIONAL EXPERIENCE

School Scout, Keserwan, Lebanon | *Volunteer → Organizer* **October 2015 - August 2024**

- Raised funds through school events and sales to purchase rations for monthly family donations
- Promoted to Organizer (2022-2024), coordinating volunteer schedules, and event logistics to scale up donation efforts for teams of 100 young scouts

Mtayleb D2 FLB, Keserwan, Lebanon | *Professional Basketball Player (2 seasons)* **March 2024 - August 2025**

- Made the D2 club team as the youngest on the team after staying undefeated my last 2 U18 years.
- Led my High School team to 2nd place in the nation (2023 and 2024), 2 regional championships (2023 and 2024), 4 runner up trophies for university organized championships (2023 twice and 2024 twice)