# Ellis Austin

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## Education

**University of Wisconsin-Madison** | Madison, WI *August 2026 - May 2030*
Bachelor of Science: Mechanical Engineering

**Grant High School** | Portland, OR *August 2022 - June 2026*
High School Diploma
GPA: 3.9

## Engineering Projects

- Pneumatic Control Module
  - Sourced solenoid valves that met specifications and identified needed fittings
  - Compared vendors on cost, lead time, and ratings
  - Modeled the manifold, valves, and fittings in CAD with OnShape
- Custom Speed Square
  - Designed in CAD and prepared CAM with Fusion 360
  - CNC machined out of solid aluminum block with 3-axis milling machine
  - Engraved precise dimensions, angles, and text
- Mini Motorbike
  - Designed and fabricated a custom frame using TIG welding
  - Features quick-change rear wheel assembly, can be swapped to allow for use as a surf winch
- Motorized Tricycle
  - Integrated bicycle front end into custom frame
  - Fabricated high-flow performance exhaust
  - Incorporated live rear axle system
- Adjustable Rolling Stool
  - Designed mechanical height-adjustment system
  - TIG welded structural frame
  - Sewed and upholstered custom leather seat

## Work Experience

**The Nines Hotel** | Portland, OR June 2026 - August 2026
Valet Driver
- Safely operated and parked guest's vehicles in fast paced environments
- Managed key inventory and logged vehicle conditions demonstrating attention to detail

**Winterhawks Ice Center** | Beaverton, OR March 2026 - August 2026
Employee
- Assisted guests with skate rentals, purchases, and general inquiries
- Maintained ice conditions and cleanliness of the building

## Extracurriculars

- Wisconsin Space Program (WISP) – Fluid Devices Sub-Team
- University of Wisconsin-Madison Club Ice Hockey

## Skills

- CAD modeling
  - SolidWorks
  - OnShape
  - Fusion 360
- Machine design
- CNC Machining
- TIG Welding
- Java Programming
- Small Engine Repair Certification