

Ryan Key

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PROFILE

Innovative and results driven mechanical engineer dedicated to precision, system optimization, and delivering effective solutions to complex problems.

SKILLS

- Expertise with experimental design, prototyping and fabrication
- Operation and programming of 3D printing, CNC, manual mill, manual Lathe machines
- Proficient in CAD, Finite Element Analysis, MatLab and relevant engineering tools
- Effective in managing heavy workloads independently and in team environments
- Able to quickly master new skills and efficiently work in a fast paced environment

EDUCATION

Northern Arizona University, Flagstaff, AZ

Graduating **June 2025**

Bachelor of Science in Mechanical Engineering

- Coursework including CAD, Heat Transfer, Engineering Design and Analysis, Thermodynamics, Fluid Mechanics, Mechanics of Materials, Applied Mechanics Dynamics, Materials Science
- Projects including vehicle component design and fabrication, active aerodynamic systems design, electrical and light system installation, accessibility applications for disabled veterans

SAE Baja Team Lead

- Suspension Team Lead; organizing design efforts and coordination between other teams
- Formal design reviews, presentations, and staff meetings with faculty, sponsors, and SAE members
- Design and manufacturing of critical vehicle components in accordance with constraints and regulations

San Marcos High School, San Marcos, CA

Graduated 2021

- Overall Grade Point Average: 4.2
- H Geometry, H Algebra, H Principles of Engineering, AP Calculus, AP Statistics, AP Physics
- Captain for Varsity Lacrosse team (4 years)
- Woodshop Teaching Assistant (2 years)
- Coaching for special needs players through San Marcos Youth Basketball Shooting Stars program

WORK EXPERIENCE

The Home Depot, Flagstaff, AZ.

2022 - Present

Order Fulfillment Associate

- Coordinated work orders and logistics with PRO customers and contractors
- Lift equipment certified and responsible for loading delivery trucks for shipment to customers
- Responsible for customer follow up and order management
- Balanced full time work schedule to finance education

Diversified Architectural Ventures, Fallbrook, CA.

2018 - Present

Wall Protection Installation Specialist

- Precisely installed wall protection panels, handrails, corner guards, crash guards in operating rooms and high traffic areas
- Operated in sterile as well as common hospital areas while maintaining clean, orderly and safe jobsite

Dicks Sporting Goods, Encinitas, CA.

2021

Bike Technician and Cashier

- Assembled a variety of mountain, road, hybrid and electric bikes from the box
- Performed routine maintenance, installed components on customer bikes

PERSONAL INTERESTS

- Overlanding, camping, mountain biking, sport shooting, auto mechanics, photography/videography and editing, snowboarding