

Keenan Manchester

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SKILLS

- **Additive manufacturing:** 3D printer design, maintenance, operation, troubleshooting, and design for additive manufacturing
- **CAD:** Onshape, SolidWorks and Fusion 360
- **Programming:** Python scripting and basic Java experience
- **Design:** Integrated design, design for manufacturability, and user-oriented design
- **Additional:** Customer service, teamwork and leadership experience

EXPERIENCE

Starbucks / Barista

[Starbucks Broomfield, Colorado \(July 2024 - August 2025\)](#)

- Part-time high school job preparing and serving handcrafted beverages
- Provided customer service, cash handling, peer mentoring, and operations optimization

Adams 12 School District / Custom Design and Manufacturing

[Coyote Ridge Elementary School \(October 2023 - May 2024\)](#)

- Consulted with educators to understand accessibility needs for students with special needs
- Designed and manufactured keyguards for touchscreens for communication accessibility

EDUCATION

High School Diploma *May 2025*, GPA: 4.5

[Erie High School, Erie, CO \(August 2021 - May 2025\)](#)

- AP Capstone; AP Scholar with Distinction; 8-semester honor roll, dual enrollment at CU Denver
- Engineering Capstone; advanced engineering coursework; Senior design project lead
- Community involvement through NHS, sports and clubs

BS in Design Engineering (Robotics and Automation) *Expected May 2029*

[Colorado School of Mines, Golden CO \(2025-present\)](#)

- FSAE Electrical subteam member, PCB enclosure development
- Relevant Coursework: Cornerstone Design, Differential Equations, Introduction to Design Engineering

ACTIVITIES

- EHS National Honor Society (2023 - 2025)
- NASA HERC 2025 Team Lead: 3rd place in division
- NASA HUNCH finalist 2025
- FDM 3D printer design, modification and construction
- Mines FSAE Electrical Team Member (2025-present)
- Congressional App Challenge Participant (2023 - 2024)
- Erie Soccer Team (2021 - 2025)
- VEX Robotics, 2x world championship competitor, 4x state championship competitor (2016-2022)

REFERENCES

Available upon request