

Cole Pickett

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EDUCATION

Northeastern University Boston, MA | **GPA 3.76** | Dean's List

Dec. 2028

Bachelor of Science in Mechanical Engineering

Relevant coursework: Statics, Calculus 3, Physics 2, General Chemistry, C++, Solidworks, AutoCAD, Arduino, Thermodynamics, Chemical Safety

Clubs: Lacrosse MCLA DI Goalkeeper, Autodesk Ambassador, American Society of Mechanical Engineers

EXPERIENCE

SwimEx Inc. *Design Engineering Intern*

Jan. 2026-Present

- Designed & Modeled 25+ modified pools using Fusion 360
- Tackled prototype design for new DepthSelect product series in a team of 2; Executed approximate composite FEA, then validated FEA results with physical test piece. Created 3D printed seal cross section for experimental proof of concept. Modeled full scale prototype, helped oversee manufacture.
- Worked cross functionally with sales and administrative office to design DepthSelect for both visual and practical appeal; Created early product renders for service by sales team; EAU of

Sightline Intelligence *Manufacturing Engineering Intern*

June 2025-Jan. 2026

- Created mechanical drawing templates in AutoCAD, OnShape, Fusion360 - Created or updated drawings for 50+ components (wires, mechanical components, circuit conformal coats)
- Invented, designed, and used SLA/FDM 3D printing to prototype protective case for product test kits reducing product waste by preventing damage during transport, software testing, and hardware benchmarking
- Led software research for new MCAD - Presented findings to engineering team + management & led discussion that chose Fusion 360 software; Transferred ~70 drawings saving 300 engineering hours whilst cutting \$40,000 of software costs over the next decade

Northeastern Electric Racing *Aerodynamics Engineer*

Sep. 2024-Jan. 2026

- Led R&D on employment of Gurney flaps on the front and rear wings to increase effective airfoil area
 - Designed front suspension winglets in Solidworks to clean airflow and create downwash for powertrain cooling + outwash to reduce airflow interruptions in the rear of the car
 - Presented in and assisted design reviews to make key decisions about the total aerodynamic package
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PROJECTS

Prototype Warehouse Robot

May 2025

- Created an autonomous organizational robot using C++, Fusion360, arduino wiring, and FDM printing
- Employed ultra-sonic sensors, and contrast sensors to allow autonomy

ISEF (International Science and Engineering Fair)

Apr. 2024

- Worked in partnership to research and develop functioning ion thruster
 - SLA 3D printed, soldered, and electroplated anode and cathode options
 - Awarded 1st place in electrical engineering at the Oregon state fair
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SKILLS

Design: Fusion360, AutoCAD, Inventor, SolidWorks & PDM, OnShape

Manufacture: Fusion360 CAM, CNC, FDM & SLA, GD&T, Soldering

Software: C++, Arduino, Matlab