

Ryan Robert Kelly

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EDUCATION

Northwestern University, Evanston, IL

Expected Graduation: June 2026

Bachelor of Science in Mechanical Engineering, Segal Design Certificate, GPA 3.5/4.0

SKILLS

Computer: Proficient in SolidWorks, Inventor, NX, MATLAB, MS Office. Experience in Python, C++, GCode.

Physical: Proficient in 3D printing, mill, lathe, laser cutting, CNC operating, soldering, wiring, mechatronics.

WORK EXPERIENCE

Deublin Company, Waukegan, IL

Jun 2024 - Aug 2024

Manufacturing Engineering Intern

- Streamlined assembly cells by updating 105 toolkits to reduce andons for high runner unions
- Created a digital tool library of over 350 tools to improve CAM workflow and optimize future programs
- Wrote engineering instructions for different processes to ensure standardization between cell operators

ENGINEERING ACTIVITIES

Baja Racing Team, Northwestern University

Manufacturing Lead

Jun 2024 - Present

- Inventory and organize all stock material and tools for accurate records and optimization of resources
- Supervise whole car manufacturing on the manual and CNC mills and lathes, waterjet, and TIG welder

Chassis Subteam Member

Jan 2023 - Jun 2024

- Manufactured parts from engineering drawings according to specific tolerances on the mills and lathes
- Designed in Solidworks CAD and manufactured the frame fixturing system for the welding of the car
- Incorporated feedback from subteam leads in design reviews to maximize manufacturability

UNIVERSITY EXPERIENCES

Segal Design Institute at Northwestern University, Evanston, IL

Apr 2023 - Present

Prototyping Shop Senior Student Trainer

- Train 100 students and faculty each quarter on advanced tools in the shop, focusing on safety and learning
- Learn complex lathe and milling operations through 1-on-1 instruction with the shop professionals
- Practice skills through personal projects to better understand manufacturing processes to teach students

Corner Makery Lead Repair Technician and Consultant

- Repair and maintain communal 3D printers through bed leveling, hotend clearing, and filament restocking
- Lead weekly information sessions about the rules and processes of using the 3D printers and CNC machines
- Grew the small makerspace to a multi-floor operation with 12 3D printers to increase machine availability

Roger's Research Group, Northwestern University

Oct 2023 - Apr 2023

- Developed wearable EEG sensors for human-robot interaction by micro soldering flexible boards
- CAD models and program CNC milling toolpaths for the molds used for board encapsulation

Design Thinking and Communication, Northwestern University

Sep 2022 - Dec 2022

Client: Kids In Danger

- Collaborated with a 4 student team to create a biometric foot wrap and app designed to prevent cases of Sudden Infant Death Syndrome (SIDS) by collecting blood oxygen and pulse data
- Wired and programmed the prototype sensor using a combination of sensors connected to an Arduino base

Other Information and Interests

Eagle Scout (2018), SAE Fraternity Rush Chair and Treasurer, Hiking, Guitar, Musical theater, Rock Climbing