

Camden Kilroy

(317)-809-1766 | cadenek@gmail.com | www.linkedin.com/in/camden-kilroy

Education

Purdue University, College of Engineering, West Lafayette, IN
Bachelor of Industrial Engineering, Expected May 2027

August 2023 - Present

Experience

General Motors - Corvette Assembly	Bowling Green, Kentucky
<i>Industrial Engineering Intern</i>	June 2025 – August 2025
● Validated jobs using motion and time studies for operators on the chassis assembly line	
● Designed and implemented a new trunk subassembly area to be able to build trunks within the cycle time	
● Used AutoCAD to create layouts for various projects around the plant	
Allison Transmissions	Speedway, Indiana
<i>Test Engineering Intern</i>	June 2024 – August 2024
● Assisted in running a variety of transmissions through testing	
● Installation, setup, and removal of transmissions in test cells	
● Created a transmission catalog that tracks transmission location, date, serial number, and work request	
Purdue Baja Racing	West Lafayette, Indiana
<i>Data Acquisition Lead</i>	January 2024 – Now
● Design, prototype, test, and implement a data acquisition system into the Purdue Baja racing car to collect valuable testing and race data	
● Designed and assembled several PCBs used on the 2025 Baja car, including long-range transceivers, IR temp sensors, and general nodes	

Technical Skills

Lean Green Belt • CAD Modeling • Altium PCB Design • Time/Motion Study • Eagle Scout • Project Management •
MATLAB • AutoCAD • Programming

Projects

Long Range Wireless Transceiver - Purdue Baja Racing

- Designed, printed, and assembled PCB with a LoRa module, RP2040 microcontroller chip, MCP 2562 CAN transceiver, and MCP 2515 microchip
- Achieved fast transmission speeds over a long distance, sharing important vehicle information with the Purdue Baja pit crew in real-time

Autonomous Table Tennis Robot - Purdue SPARK Challenge

- Work alongside a team of other Purdue Engineering students to design, manufacture, and test an automatic table tennis robot.
- Use Autodesk Inventor to design a fast, cost efficient, rail system to move a ping pong paddle
- Test and program brushless motors and brushless motor controllers with PID and hall encoder

Bicep Curl Climber Design – Ri3D RustHOUNDS

- Founding member of a “Robot in 3 Days” team, a collegiate engineering challenge to design, build, and test a competition ready First Robotics Competition (FRC) robot in 72 hours
- Conceptualized and developed the “Bicep Curl Climb”, a compact climbing mechanism adopted by 35% of the top 100 FRC teams for the 2025 season
- Published documentation with 1.9M+ views, fostering collaboration among nearly 4,000 high school robotics teams worldwide