Camden Kilroy

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Experience

General Motors - Corvette Assembly   Bowling Green, Kentucky

Industrial Engineering Intern   June 2025 – August 2025

- Validated jobs using motion and time studies for operators on the chassis assembly line and updated standard operating procedures
- Used root cause analysis to design and implement a new frunk subassembly area to be able to build frunks within the cycle time
- Used AutoCAD to create layouts for various projects around the plant
- Participated in weekly cross-functional meetings to identify 5S opportunities and drive continuous improvement initiatives across the assembly line.

Allison Transmissions   Speedway, Indiana

Test Engineering Intern   June 2024 – August 2024

- Created a transmission database that tracks transmission location, date, serial number, and work request
- Assisted in running a variety of transmissions through testing
- Installation, setup, and removal of transmissions in test cells

Purdue Baja Racing   West Lafayette, Indiana

Data Acquisition Lead   January 2024 – Now

- Coordinate and oversee new member projects to get new data acquisition members involved with the team
- Design, prototype, test, and implement a data acquisition system into the Purdue Baja racing car to collect valuable testing and race data

Technical Skills

CAD: AutoCAD, Autodesk Inventor, Siemens NX, Fusion 360, SOLIDWORKS, Altium Designer

Simulation & Analysis: Mozart Fab WISE, LSE Studio, MATLAB, Python

Certificates: Lean Six Sigma Green Belt, Scouts BSA Eagle Scout

Projects

Long Range Wireless Transceiver - Purdue Baja Racing

- Designed, manufactured, and soldered a PCB with GPS, long-range transceiver (LoRa), and CAN network capabilities
- Achieved fast transmission speeds over a long distance, sharing important sensor data 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

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

Education

Purdue University, College of Engineering, West Lafayette, IN   **August 2023 - Present**

Bachelor of Industrial Engineering, Expected May 2027