

# Jacob Cole

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## Education

### BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

- Purdue University Polytechnic Institute
- 08/2017 to 05/2021
- GPA: 3.43/4.00

## Certifications

### HARVARD INTRO TO COMPUTER SCIENCE

- C, Python, Flask, SQL, HTML, CSS, JavaScript, Data Structures and Algorithms
- 05/2022 - PRESENT

## Technical Skills

### LANGUAGES

- C, MATLAB

### CAD SOFTWARE

- Autodesk Inventor, Autodesk Revit, SOLIDWORKS, CATIA V5, Siemens NX, AutoCAD Electrical

### OTHER

- Connected Components Workbench, Excel, GD&T, Finite Element Analysis, Process Improvement, Product Development, Project Management

## Experience

### JOHNSON CONTROLS | SYSTEMS APPLICATION ENGINEER

**JULY 2021 – PRESENT**

- Designed HVAC equipment selection, application, and submittal
- Managed project financial performance ranging from \$20,000 to \$2.7 million above booked margin
- Communicated design, configuration, operation, and installation requirements to engineers and contractors
- Overseen project implementation through on-site tours and checkups

### J AND J INDUSTRIAL SERVICES | CONTROLS ENGINEER INTERN

**JUNE 2014 – AUGUST 2020**

- Designed a functional stop light, car wash, and gas station pump in Connected Components Workbench
- Converted MicroLogix 1400 PLC programs to the Micro850 PLC
- Assembled and wired automation control panels
- Created electrical control schematics in AutoCAD Electrical
- Assisted company officers with field service and installations

## Projects

### ELI LILLY AND COMPANY | SOFTWARE ENGINEER

**AUGUST 2020 – MAY 2021**

- Designed a Microsoft Power App in Power Automate flow that can be used to upload files on SharePoint
- Drafted a report documenting all the findings about the RealWear HMT-1/Microsoft HoloLens 2
- Worked with Purdue Engineering Computer Network to broadcast a Wi-Fi network for the devices
- Conducted a usability study by comparing the devices
- Held weekly meetings with our industry contact to update him on the status of the project

## Leadership Activities

### ACADEMIC CHAIR | MENTOR

**AUGUST 2019 – MAY 2020**

- Led the Academic Committee at Kappa Sigma Fraternity, Chi Chapter by offering tutor sessions in various engineering courses

### ELEVATE FORUM – STEM STUDENT EDITION | ATTENDEE

**MAY 2019**

- Attended Elevate Forum to gain knowledge from Fortune 500 resource group leaders