

# PATRICK BOLLINGER

<https://pjbollinger.com/>  
owner@pjbollinger.com

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## WORK EXPERIENCE

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### **Aptiv (split from Delphi Automotive)**

Warren, OH

#### *Hybrid and Electric Vehicle (HEV) Systems Engineer*

Dec 2017–Present

Lead engineering efforts as the main interface to one of our clients.  
Provide domain knowledge for customers on Vehicle Wireless Charging.  
Coordinate ways to improve management of the project.

### **Delphi Automotive**

Warren, OH

#### *HEV Systems Engineer*

May 2015–Dec 2017

Characterize and model components in Vehicle Wireless Charging system.  
Develop internal tools using Python to model the system.  
Interact with global customers to support their requests.  
Mentor new engineers and interns who join the department.

#### *HEV Parallel Student Intern*

Aug 2014–May 2015

Use LabVIEW to collect instrumented data.  
Model physical systems in SPICE simulation software.  
Simulate magnetic data of charging coil using ANSYS Maxwell.

### **Youngstown State University**

Youngstown, OH

#### *Student Web Programmer / CMS Developer*

Aug 2013–Aug 2014

Update web applications to use modern web technologies and standards.  
Fulfill requests from the faculty & staff of Youngstown State University.  
Develop web templates in YSU's content management system (CMS), ContentM.

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## SKILLS

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Programming: Python, MATLAB, JavaScript, HTML, PHP, Java, among others.

Engineering: EM FEM (ANSYS Maxwell/HFSS), SPICE, and 3D CAD.

Productivity: Microsoft Office Suite, Git, and JIRA.

Operating Systems: Windows, macOS, and Linux.

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## EDUCATION

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### **Youngstown State University**

Youngstown, OH

M.Sc. in Electrical Engineering

Pursuing–May 2019

### **Youngstown State University**

Youngstown, OH

B.Eng. in Electrical Engineering *Cum Laude*

May 2015

Electrical/Computer Engineering