

# Gib Jeffries

Software Developer

(828)545-0223

[Gib.Jeffries@Gmail.com](mailto:Gib.Jeffries@Gmail.com)

<https://github.com/mgjeffries>

<https://www.linkedin.com/in/gib-jeffries>

## Personal Profile

I'm a Mechanical Engineer turned Software Engineer! I like helping people by building automated systems. In my manufacturing automation career, I learned how to break down problems to find the root cause, and I'm excited to bring that skill into my new role as a software developer. My goal is to work on web technologies as a software developer in a team environment.

## Experience

### Nashville Software School, Full Stack Developer Bootcamp - July 2020 - January 2021

Intensive six-month, full-time software development bootcamp with immersive, lab-based learning in Full-Stack Development, with a focus on HTML, CSS, JavaScript, and React.

- 5-day agile-SCRUM sprint Holliday Road. Built a 5-day weather forecast component in pure Javascript using the openWeather API and created a directions provider that converted a list of cities and states to a list of directions using the graphhopper API. This project allowed the team to demonstrate our skills in handling event flow and asynchronous functions while designing a site for a specific user profile.
- Daily Journal: an individual project in Pure Javascript. Practiced Wireframing, API calls, HTML, CSS, and Flexbox. Went beyond the basic requirements to add a character counter and a tagging system. These additional components demonstrate component decoupling and an understanding of many-to-many data relationships.
- Individual capstone project: Chooser, a decision making app built using React with Hooks. Kept a log of user feedback while working on this app, and was delighted to see improvements in the user experience at every step in the process. Using React-Bootstrap helped keep the UI mobile-friendly, and allowed me to quickly try out new color schemes, and even add a responsive chart component. <https://github.com/mgjeffries/chooser>
- Agile-SCRUM project Rare: built a full-stack publishing app with user roles, and complex data relationships. To learn the skill of mitigating between systems, we initially built the site using a Python+SQL server, then replaced that server using Django. After each of the three sprints, we held a retrospective to learn from our experience and determine our velocity for the next sprint. This was a great way to learn teamwork in an agile environment, and implement the Django ORM.

### Hirebotics, Staff Engineer - 2018 - 2020

Hirebotics deploys and monitors robotic employees across the USA for an hourly rate. They provide 24/7 support and analytics through a web app that is cloud-connected to each robot.

- Lead a squad of engineers through application development, design, deployment, and support of robotic employees. We were responsible for every aspect of the project, from negotiating the project scope to maintaining it 24/7 after it was deployed. Used daily stand-up meetings and weekly retrospective to continually improve. Our squad deployed nine robotic employees in fifteen months, producing over eight years of working labor, and over 1.5 million parts.
- Programmed robots in UR-Script (Python) using functions for program flow, and concurrent threads for asynchronous control. Accessed data from a server for program-specific, real-time updates to robot waypoints. We transitioned from storing robot programs locally on the robots to using Git/Github for version control, with automation for unit testing and bundling scripts to send to the robots.
- Designed automated robotic cells using Onshape, a cloud-based CAD platform with built-in

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version control

- Communicated with a remote/traveling team using G-suite, Slack Basecamp, and Zoom

## **ATC Automation, Machine Designer - 2015 - 2018**

ATC Automation designs and builds custom automated assembly and test equipment for industries including transportation, life science, energy storage, and consumer goods.

- Built machines on the shop floor for 6 months before moving into the role of a machine designer. Designed detailed 3D and 2D Solidworks CAD models of custom automated machines, working from a technical specification from the customer, and a quote from our sales team. Conducted internal design reviews with my team to check for manufacturability, and compliance with the specs, before moving into external design reviews with the customer.
- By working with automated equipment I learned the importance of tracing problems back to the root cause, rather than guessing at a possible fix. In particular, I promoted the idea of taking video of production runs, so that if a problem occurred, we would be able to trace the root cause.
- Office communication using Outlook, Word, Excel, GoToMeeting, and Zoom

## **Engineering Internships**

- **BorgWarner Thermal Systems** -summer 2014
- **Carolina Knife Company** -summer 2013
- **Tyco Valves and Controls** -summer 2012

## **Education**

**Nashville Software School**, Full Stack Developer Bootcamp - July 2020 - January 2021

**North Carolina State University**, B.S. Mechanical Engineering -GPA 3.766 -Graduated 2014

- Dean's List 7 out of 7 semesters