

# RUTVIK PANDYA

## MECHATRONICS ENGINEERING

### SKILLS

C++		JavaScript		Jira		C		Angular		React
PHP		Selenium		SOLIDWORKS		Git		Eagle		LabVIEW

### WORK EXPERIENCE

#### ANSYS, INC.

**Software Developer | Sept-Dec 2020 | Mississauga, ON**

- Collaborated with the Account and Store Team to gain experience in Angular and Microsoft Azure
- Refactored multiple portion of the admin website into reusable components
- Designed and collaborated on reworking multiple analytics and order fulfilment tables that allow insight on website purchases
- Communicated with multiple customers to get their applications onto the Andy's catalog, getting a grasp for business aspect of the workplace
- Worked hand-in-hand with developers to improve the rate of applications added to the catalog from 3-4 applications/month to 14-15 applications/month while improving customer satisfaction

#### ELECTROVAYA INC.

**Firmware Engineer | Sept-Dec 2020 | Mississauga, ON**

- Modified Wilke CAN-Bus I/O Modules used in the End of line testing to send messages at the specific baud rate of the battery being tested
- Designed a 2-layer PCB in Eagle that uses "CAN Bus Logger with SD-card" as a base, connects externally using a DB9 connector, has micro-fit headers to allow further application and interaction with the MCU (STM32F405) and a coin-cell battery holder that maintains the internal RTC when the module is powered off (will replace the Wilke Modules in the future, reducing cost from \$200 to \$25 a piece)
- Designed a software tool in LabVIEW that can receive and transmit CAN data to batteries allowing employee's to monitor and test the batteries in a much faster and precise manner
- Added over 10 applications to the software such as logging, error code identification, obtaining the V/I/T state of the battery as well as a search functionality for the thousands of incoming messages (documentation available at request)

#### BENDIX COMMERCIAL VEHICLE SYSTEMS LLC.

**Mechatronics Product Developer | Jan-Apr 2020 | Elyria, Ohio**

- Designed and worked on the assembly of an Air-Board representing Bendix's brake systems in North American Trucks
- Designed Gerber files on PADS Layout that uses an Arduino Pro Mini, NeoPixel lights and a button to cycle through various light patterns to be used as a quick communication device for workers on separate ends of a warehouse
- Cut and assembled 40 PCBs of that design, improving my circuit design, soldering, coding and planning skills
- Assisted in the testing of a Truck's brake system
- Organized a STEM outreach day for children of employee's to showcase the Engineering design process using my PCB project strengthening my communication, organization and collaboration skills

#### LOOPIO INC.

**Automation Engineer | Apr-Aug 2019 | Toronto, ON**

- Developed 50+ automation scripts with Selenium and PHP to test various core features of the product
- Maintained Bitbucket pipelines everyday to ensure 100% of the automation test suite is successful
- Implemented FullStory (third-party analytics software) to application to allow for analysts to monitor site without accessing private customer data
- Collaborated with a team of engineers to re-factor of React code
- Attained a working understanding of MVC structure and Docker containers
- Fixed and documented 50+ bugs and necessary design tweaks

### PROJECTS

#### PORTFOLIO WEBSITE

**Sept 2020 - Present**

- Creating a personal portfolio website to harness a better understanding of web-design technologies such as REACT, Javascript, CSS, JSX & HTML
- Working on the implementation of a contact form which allows employers to get into contact through the site
- Designing with the idea of testing using Selenium in mind to make a robust product

### GET IN CONTACT

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Website: <https://rutvikp.me>

### EDUCATION HISTORY

#### UNIVERSITY OF WATERLOO

**Waterloo, ON., Canada**

Candidate for **B.A.Sc.**, Mechatronics Engineering, Sept. 2017- 2022

### OTHER SKILLS

- Understanding of computer hardware
- Understanding of Data Structures and Algorithms
- Experience with Formlabs 3D printers