HENRY HEIN

FRONT END DEVELOPER

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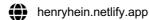www.github.com/henry-hein   henryhein.netlify.app

PROFILE

I'm electronics engineer from Canada with three years of experience seeking a **junior software developer** position for a career change. As part of the effort, I've been teaching myself how to program websites for the past seven months. You can see my work in the portfolio website above.

SKILLS

- HTML5
- CSS
- React
- Github

- Javascript
- Heroku
- RESTful API
- UI/UX

- JQuery
- Bootstrap
- Mobile Responsive Design
- Windows, Mac, Linux OS

WORK EXPERIENCE

Facilities Service Clerk
Vancouver, Canada

Simon Fraser University / Jan 2019 - Dec 2021

Working as part of SFU Surrey Facilities Team to ensure campuses operate smoothly.

- Employed teamwork, problem solving, and analysis skills to handle maintenance requests such as fixing leaks, broken doors, and hanging white boards
- Provided excellent customer service to internal SFU staffs and ensured all requests were handled in timely and respectful manner

Electronic Test Engineer
Vancouver, Canada

Innovative Circuit Technology / Jan 2018 - Dec 2018

Worked as part of R&D Team, responsible for procurement, assembly, testing, documentations, and debugging power electronic systems which lead to company savings of $100,000 in six months

- Created test plans, performed tests, and documented findings for magnetics, fans, and electronics for power converter systems.
- Communicated supply chain, manufacturers, engineers, and technicians to ensure components were qualified in accurate and timely manner
- Debugged and tested new high-power converter while working under supervision to help execute test plans and come up with ways to improve test plans

Hardware Test Engineer
Vancouver, Canada

TRIUMF / Sep 2016 - Dec 2017

Worked as part of Beamline Diagnostics Team, responsible for procurement, assembly, testing, SPICE simulation, documentations, and debugging beamline electronics.

- Diagnosed, and repaired electronic circuits, assembled mechanical casings, and created cable harnesses using common lab equipment and tools
- Communicated with PCB manufacturers, component suppliers, and team members to ensure all specifications and deadlines were met

EDUCATION

Bachelor of Applied Science, Electronics Engineering
Simon Fraser University / Burnaby
Sep 2012 - Dec 2017

PROJECTS

Front End Web Development   📍 *Vancouver, Canada*
Self-Learning / August 2021 - Present

Currently teaching myself how to program websites in HTML, CSS, JS, jQuery Bootstrap, and React. As well as cloud hosting platform like Heroku and version control software such as GitHub.

- Designed and built mobile responsive currency converter that interacts with open source API using React, Bootstrap, CSS, hosted website on Heroku cloud application, and managed versions on GitHub
- Built movie finder in React and Bootstrap that interacts with open source movie database API and managed versions on Github
- Designed and built mobile responsive personal portfolio website using HTML, CSS, Bootstrap, and Github
- Built interactive timer-based math game using Vanilla JS, jQuery, HTML, CSS, and Github
- Built responsive Apple, Airbnb, and Newsweek website clones using HTML, Bootstrap, and CSS

Arduino Nano & Uno PCB Design   📍 *Vancouver, Canada*
Personal Project / Oct 2017

Took two online classes and created Arduino Uno & Nano in Altium Designer to strengthen my knowledge on PCB design. Design consisted of 94 total components that include SMT resistors, capacitors, diodes, buttons, micro-usb connector, crystal oscillators, jumper headers, regulator, and other DIP components.

- Created PCB and Schematic libraries that comprised of 23 footprints and 22 schematic symbols, as well as 3D models for each component
- Implemented schematic with good spacing, intuitive net labels, and text labels to easily identify between different circuits
- Considered component placements in layout for easier routing and utilized wide tracks and/or polygon planes for power/gnd nets
- Generated BOM, Assembly drawings, Gerbers, Pick and Place, and Drill files for manufacturing and assembly

INTERESTS

- Travelling
- Cooking
- Basketball
- Soccer
- Hiking
- Biking