

JOSEPH BROWN

Riverside, CA · brown.joseph.ee@gmail.com · (818) 306-7623 · jbrown3859.github.io

EDUCATION

University of California, Riverside
BS Electrical Engineering *GPA: 3.8*

Riverside, CA
September 2019 - June 2023

EXPERIENCE

ARKS: Self Driving Warehouse Carts
Mechatronics Engineering Intern

Riverside, CA
September 2019 - Present

- Working to develop and refine warehouse automation technologies. Using ROS and Arduino to accurately move a Mecanum drive cart around a Kinect mapped environment.

SoCalShredz
Web Designer

La Canada Flintridge, CA
September 2018 - August 2019

- Delivered services as the web developer, designer, application specialist and webmaster, acting as project manager for the transition. Conceptualized, planned and executed designs for a wide range of website properties using Bootstrap 4.3, HTML, and CSS.

SimpleLayers, Inc
Assistant Developer

La Crescenta, CA
June 2018 - August 2018

- Worked with other developers on a geographic information system for organizing and delivering information pertaining to a user's local agencies and community organizations.

ParkPlus CA
CAD Intern

Sun Valley, CA
June 2017 - August 2017

- Used AutoCAD to maximize space in automated and high density parking solutions for clients.

PROJECTS

Team Data Software *Java, Apache POI*

github.com/jbrown3859/AutoScout

- Developed software to track attendance of 100+ robotics team members, and to analyze tournament scores and organize data on other FRC teams

Electric Board *Power, Signal Systems, C++* github.com/jbrown3859/Electric-Longboard-Conversion

- Designed and refined a budget kit for retrofitting skateboards with electric drive and wireless control. Android app for Bluetooth throttle control in development

FIRST Team 589 *CAD, Java, Metal Work, Welding*

- Worked alongside other team members to design and build a competition robot in 6 weeks.
- Used AutoDesk Inventor for design, managed I/O with a RoboRio and a Raspberry Pi, and fabricated steel and aluminum parts with manual mills, presses, and MIG welding equipment.

SKILLS

Object Oriented Programming:	Java (3 years), Python (1 year), C# (1 year), C++ (2 years)
Web Development:	Limited frontend and backend experience
Fabrication:	Welding, Aluminum, Steel work, AutoDesk Inventor, Solidworks
Operating Systems:	*nix file systems, Windows 10
Leadership:	Years in leadership in the Boy Scouts and FRC 589
French:	Limited Working Proficiency

AWARDS

Eagle Scout Troop 319
2018

Arshak Award FRC 589
June 2019

Le Grand Concours CVHS
Competed and placed in the 30th percentile in a nationwide French literacy competition April 2018