

# JOSEPH BROWN

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## 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](https://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](https://github.com/jbrown3859/Electric-Longboard-Conversion)

- Designed and refining a 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**

Competed and placed in the 30th percentile in a nationwide French literacy competition

CVHS  
April 2018