

Github  
github.com/kammce

Robotics  
sjsurobotics.org

Khalil A. Estell

Phone  
916-477-9645

Location  
San Jose, CA

Portfolio  
kammce.io

S.C.E.  
sce.engr.sjsu.edu

San Jose State University - GPA 3.24  
Computer Engineering - June 2017

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## Skills

{ Software Engineering }

**Advanced** ( 10.0 years )

Node.js, Robot Operating System (ROS), HTML5, CSS3, Git, C/C++, Python, MySQL, NASM, MIPS

⚡ Electrical Engineering ⚡

**Proficient** ( 4.0 Years )

PCB Design, Battery Management Systems, Verilog, Digital Design, Computer Architecture, Motor Control

⌚ Embedded Systems ⌚

**Proficient** ( 4.0 years )

Embedded Linux (SBCs), DBC, I2C, SPI, UART, CANBUS, RC Control, FreeRTOS, LPC17xx

🏭 Manufacturing 🏭

**Competent** ( 4.5 years )

OnShape, Diptrace, SolidWorks, Stratasys 3D Printing, Eagle CAD

## Large Scale Projects



University Rover Challenge

*Aug '15 - Jun '16 & Aug '16 - present*

- Lead teams of **70+** active members
- Received **16th** place out of **64** teams in 2016
- Reviewed and verified all rover system designs



1:10 Scale Autonomous Car

*Aug '16 - Dec '16*

- Lead team of **8 undergraduate members**
- Lead **highest scoring team** in graduate level course
- Completed project **2 weeks ahead of schedule**.



NASA RASC-AL RoboOps

*Aug '14 - Aug '14*

- Lead team of **23+** active members
- Received **honorable mention** from judges for our **innovative universal gripper**.
- Received **honorable mention** for our **firmware and video streaming system**.

## Work Experience

**essai**  
R&D

System Development

*July '17 - Aug '17*

Revived an autonomous security robotics project and brought it up to speed within 2 weeks. Used ROS and subsequent sensors to perform SLAM and simple motor control.



Web Application Designer

*Jun '15 - Aug '15*

Designed a web application using Python and the Flask framework for recording equipment sent to and from the ISS by the SPHERES group.

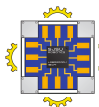


Satellite Software Engineer

*Jul '15 - Aug '15*

Wrote a memory efficient, fast, and fault tolerant RS232 packet parser and data structure generator in Python for an research CubeSat.

## Leadership, Management, & Membership



SJSU Robotics Team

*Jan '13 - Present*

- Competed in **3 national** and **international** robotics competitions
- Grew active team membership by **460%** (15 to 70 members)
- Raised and worked with budgets of **\$22,500** for two years
- Transformed the club from a maker space into a competitive team



S.C.E. Society

*Aug '14 - Present*

- Grew Membership by **300%**
- Managed teams of 18 officers
- Held positions of **Development Lead, Vice President, President** and **Executive Advisor**
- Increased member participation and room usage by **200%**



CoE Dean Search Committee

*Apr '15 - Oct '16*

Selected by the university provost to act as the student representative committee member for the San Jose State University Charles Davidson College of Engineering Dean Search Committee.