

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



Google

March '18' - Present

Worked on embedded software for Daydream (6 mo), dialogs for Google Assistant (6 mo), and system software for Wear OS (3 years).



CmpE Dept Instructor

Aug '17 - Present

Instructor of **30** students for CmpE 146 (Real-Time Embedded System Design). Teach students concepts of RTOS, **embedded systems**, **circuits**, **hardware communication** & **peripheral drivers**.

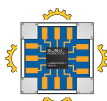


Satellite Software Engineer

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.

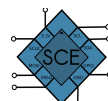
## Leadership, Management, & Membership



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.