

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

LinkedIn
lnkd.in/KhalilEstell

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khalil.estell@sjsu.edu

Skills

{ Software Engineering }
Advanced (10.0 years)

NodeJS, JavaScript, HTML5,
CSS3, Git, C/C++, Python,
FFmpeg, MySQL, NASM,
MIPS PIC24F ASM,
MongoDB,

⚡ **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.

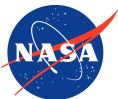


NASA RASC-AL RoboOps

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



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.

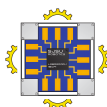


IT/Technology Coordinator

Summers '13 & '14

Setup and maintained 18+ computer labs with 400+ combined computer across the Stanford campus for the Stanford Pre-Collegiate Summer Institutes (SPCS) program.

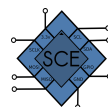
Leadership, Management, & Membership



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.