

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)

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

Robotics R&D

July '17 - Aug '17

Revived autonomous security robotic prototype in a **6 weeks**. Used ROS and sensors suite to perform **SLAM, point cloud generation, motor control, and navigation**.



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, embedded circuits, μ C peripherals, serial and parallel communication.

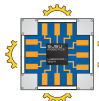


Satellite Software Engineer

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.

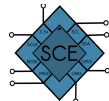
Leadership, Management, & Membership



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.