

# MATTHEW J. KRAGER

[matthewkrager@gmail.com](mailto:matthewkrager@gmail.com) - 714-475-4359 - <http://krager.org> - <https://github.com/TheMkrage>

---

LANGUAGES	TECHNOLOGIES
Java, Swift, C,	Control Systems,
Python, HTML	iOS SDK, Web
	Crawling, Git,
	Electrical, Arduino,
	Raspberry Pi

## ACADEMICS

- Servite High School (2013-present)
  - GPA: 3.77 or 4.59(W), ACT: 34, SAT Math II: 800, Physics: 740
- Stanford Pre-Collegiate Institute: Artificial Intelligence (Summer 2015)
  - Completed daily labs applying concepts learned such as decision trees and the A star algorithm.

## EXPERIENCE

- VEX Robotics Team 3309B
  - Director of Programming/Founder (2014-2015)
    - Built an autonomous routine that contributed to us winning several tournaments.
    - Robot Skills State Champions and qualified for World Championships.
  - President (2015-2016)
    - Led the team to becoming State Finalist and again qualifying for World Championships.
- FIRST Robotics Team 3309
  - Director of Programming (2014-2015)
    - Created an autonomous routine that scored maximum using several PID controllers.
    - Developed a system for two independent carriages to move in sync.
    - Awarded a programming award at a competition containing 3 world champion teams.
  - Vice President of Design Engineering (2015-present)
    - Created a vision tracking system that allowed us to automatically aim and make a shot.
    - Oversaw the design of the robot by leading and presenting weekly design reviews.
    - Planned and routed all of the electrical components of the robot.
- Junior Statesmen of America Director of Technology (2015-present)
- Director of Servite TV (2015-Present)
- Co-Founder and Co-President of Servite's Technology and Innovation Club (2015 – Present)
  - The club's purpose is to expose students to basic aspects of STEM.
  - 11/15/16: Hosted a Tech Fair containing 17 companies and several tech-related groups.

## PROJECTS

- VEX Scout
  - Created a mobile application which assists VEX Robotics teams in learning about other teams.
  - VEX Scout is now the most widely used scouting app in VEX Robotics.
- Eagle Scout Project
  - Hosted a robotics scrimmage containing 24 teams. Also served as a networking event.
- Orange County Regional Application
  - Built a mobile application that modernizes the key aspects of a FIRST Robotics Competition.
  - Used the Parse SDK and HTTP requests to get and store data.

## INDIVIDUAL AWARDS

- Principal's High Honor Roll every Semester (2013-2016)
- 9 VEX and 3 FIRST Programming-Related Awards (2013-2016)
- Speech and Debate Congress Orange County Finalist (2014)
- Disneyland Dreamers and Doers Shining Star (2015)
- VEX Robotics Photography Award Winner (2016)
- FIRST Robotics Team 3309 Dean's List Semifinalist (Equivalent to MVP) (2016)
- VEX Robotics Online Programming Skills World Champion (2016)
- National Hispanic Scholar (2016)
- "Most likely to make a Scientific Discovery" – Voted by Student Body (2016)