

# Shane Kelly

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## EDUCATION

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### FRANKLIN W. OLIN COLLEGE OF ENGINEERING

*Robotics Engineering Candidate*

**Needham, MA**

*May 2018*

### CEDAR PARK HIGH SCHOOL

*High School Diploma*

**Cedar Park, TX**

*Jun 2014*

## WORK EXPERIENCE

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### Robotics Research – Olin College

- Research and advance human-robot interaction
- Create a user-friendly robotics platform for future students to use

**Needham, MA**

*Jan 2015 - Present*

### 3D Printing Research - Olin College

- Research printing methods to increase efficiency and usability in the rapid prototyping field
- Oversee campus-wide 3D printer use
- Edit 3D models to ensure compatibility with the 3D printing process
- Design and print complex 3D models to push the boundaries of modern 3D printing technology

**Needham, MA**

*Sep 2014 – Present*

### Product Design - National Oilwell Varco

- Worked alongside innovators in the oil field
- Gained exposure to real-world design processes

**Austin, TX**

*Feb 2014*

### Private Tutor - Self Employed

- Held private tutor session for math students
- Helped students develop healthy study habits

**Austin, TX**

*Sep 2013*

## PROJECTS

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### Functional 3D Printed Mobius Gear

- Currently working on designing and 3D printing a Mobius gear that can be driven by servos
- Creating on a design based on helical planetary gear bearings to all the gear to both rotate and spin

### MegaBots Robotic Arm Design

- Designed the left arm for a 15' bipedal arena-combat robot
- They simulate combat with large paintball-based weapons

### Founded and led a VEX and FIRST Robotics team

- Competed in the world championship in 2013 and 2014
- Created an award-winning design and documentation process
  - Won Texas state championship design award in 2013 and 2014

## LANGUAGES

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### Fluent

- English
- MATLAB
- Java
- Python
- RobotC

### Conversational

- Spanish
- C++
- LabVIEW
- HTML
- CSS
- JavaScript

## OTHER SKILLS

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- **3D Design** – 5 years (Autodesk Inventor, Solidworks)
- **Circuit Layout** – 2 years
- **Robot Operating System**