

Shane Kelly

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EDUCATION

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

Robotics Research Assistant – Olin College of Engineering

Needham, MA
Jan 2015 - Present

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

3D Printing Research Assistant- Olin College of Engineering

Needham, MA
Sep 2014 – Present

- 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

Product Design Intern - National Oilwell Varco

Austin, TX
Feb 2014

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

Private Tutor - Self Employed

Austin, TX
Sep 2013

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

PROJECTS

Interactive Robot ‘Jimmy’

- Work on software, electrical, and mechanical components of an interactive humanoid robot named Jimmy
- Giving Jimmy human-like functions: detecting / looking at faces, recognizing objects and responding to them

Functional 3D Printed Mobius Gear

- Designing and 3D printing a Mobius gear that can be driven by servos
- Design is based on helical planetary gear bearings that allow the Mobius gear to rotate along two axis

MegaBots Robotic Arm Design

- Designed the left arm for a 15’ bipedal arena-combat robot
- Robots 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

Fluent

- English
- MATLAB
- Java
- Python
- RobotC

Conversational

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

OTHER SKILLS

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