

**Permanent Address**  
2945 Mill Wood Lane  
Blacksburg, VA 24060

# Zachary Charles Kozar

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**Temporary Address**  
544 Lee Hall  
570 Washington Street  
Blacksburg, VA 24061

## EDUCATION

**Virginia Polytechnic Institute and State University**, Blacksburg, VA  
**Intended Major:** Mechanical Engineering  
Galileo Living Learning Community  
Expected Graduation Date: May 2021

**NASA Robotic Mining Competition** design team

**Director of Programming for Virginia Tech – class Code( )**

**Blacksburg High School**, Blacksburg, VA (2015-2017) GPA: 3.55/4  
Graduation Date: May 2017

Advanced Diploma (6 more credit hours than regular diploma)

BHS National Honor Society Inductee - October 2016

Governors STEM Academy Seal

*FIRST Robotics* – Member of Blacksburg’s Copperhead Robotics 401 - 2016-2017

Drive Team – 2017

Head Programmer – 2017

World Championship Qualifier, St. Louis, MO – 2016, 2017

District Engineering Inspiration Award – 2017

Regional Engineering Inspiration Award – 2017

**Northwest Catholic High School**, West Hartford, CT  
2013 – 2015

Honor Roll at Northwest Catholic – Honors for 3 semesters

*Robotics Club – Sea Perch* – 2014, 2015

## WORK EXPERIENCE

**Orthopedic Mechanobiology Laboratory at Virginia Tech** | Blacksburg, VA  
Summer 2017 - Present

Dr. Vincent Wang, (540) 231-1771

Projects: Discovering relationships between injured and normal tendons using Shear Wave Elastography and Machine Learning on b-mode ultrasound images.

Projects and preliminary studies include stress relaxation testing, pull to failure testing, fatigue to failure testing, and bi-axial testing. Responsibilities include performing mechanical testing and operating imaging equipment, including cameras and ultrasound equipment, analyzing data using Java, Excel, and Matlab, dissecting mice and rats, and maintaining the lab website.

**Cornice Inc.** | Blacksburg, VA  
2016 – 2017

Debbie Bodemer, (540) 239-8321

*Construction Assistant:* Helped construct two garages for private clients in Blacksburg.

**Valley Sports Physicians & Orthopedic Medicine** | Glastonbury, CT  
Summer 2015

Dr. Paul Tortland, DO, (860) 675-0357

*Office Assistant:* Assisted doctors with procedures when needed, stocking patient rooms, counting inventory, monitoring the front desk and answering phone calls / faxes.

## VOLUNTEER EXPERIENCE

**A Hand Up Inc.** | West Hartford, CT  
2014-2015

Helping the homeless transition to independent living by delivering donated furniture to those who cannot afford it.

**VCOM Mission Trip** | El Salvador  
December 2016

Hosted medical clinics in rural villages to serve the communities

## SKILLS

### Programming Experience

*Self-Taught Languages:* Java, Kotlin, Python, HTML, JavaScript, CSS, Sass, Matlab.

*Projects:* Simulations, automation scripts, electronics, computer vision and interactive/responsive websites

Proficient in Microsoft Office, Adobe Photoshop, Illustrator, and Premiere

Beginner Computer Aided Design (CAD)

Basic to Intermediate Spanish