

# Joseph Krueger

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## EDUCATION

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### **Villanova University, Villanova, PA**

May 2021

Bachelor of Science in Mechanical Engineering | 3.59 GPA | Dean's List

### **Northeastern Senior High, Manchester, PA**

May 2017

Magna Cum Laude | 4.00 GPA | SAT: 1520 | ACT: 33

## ENGINEERING EXPERIENCE

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### **Summer Research**, Villanova Center for Research and Fellowships, Villanova PA Summer 2019-Present

- Proposed and conducted faculty advised research on the effects of fragmentation on brittle materials
- Wrote and utilized computer simulations in Matlab to collect and compile data
- Summarized data set and presented findings at the Villanova Summer Research Symposium

### **Junior Project Manager**, Villanova Facilities, Villanova, PA

2018 - Present

- Performed survey of 128 classrooms on campus
- Conducted preliminary inspections of new campus housing for ADA compliancy
- Reviewed engineering drawings and created formal reports

### **Intern**, Coupling Corporation of America, Jacobus, PA

Summer 2016, 2017, 2018

- Designed projects for use in manufacturing and attended corporate meetings for engineering and sales
- Researched, contacted companies, and made purchases and deliveries for company needs
- Assembled several industrial couplings for variety of companies such as NASA and Boeing

### **Engineering Interdisciplinary Project**, Villanova University

2018

- Project culminated in building a website including Google Maps data and user information
- Collaborated in team of four to create, develop, and present a new solution to a problem

## LEADERSHIP/ACTIVITIES

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### **President**, Villanova Chamber Strings

2019 - Present

- Organized, planned, and performed in concerts and events on Villanova's Campus

### **Member**, Villanova SWE Professional Development Committee

2019 – Present

- Worked with a team to direct career building events such as an annual networking dinner

### **Executive Board Member**, Villanova Pops Orchestra

2017 – 2019

- Supported director in the operations of orchestra and its performances

### **President**, High School Orchestra

2016 - 2017

- Won National High School Orchestra Award for outstanding leadership in school orchestra

### **Team Captain**, Northeastern Robotics Team

2014 - 2017

- Won third place overall in regional Vex robotics competition and first place in two events

## VOLUNTEER WORK

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### **Volunteer**, Villanova Engineering is for Girls Day

2019

- Lead activities to introduce grade school girls to engineering

### **Participant**, Saint Thomas of Villanova Day of Service

2017-2018

- Cleaned up, repainted, and improved the communities of those in need in Philadelphia

## SKILLS

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Experience with Matlab, Python, SLURM, Autodesk Inventor, Solidworks, HTML, Solid Edge, and CSS.  
Proficiency with Microsoft Office and general online databases.