

# Peter Sterckx

MECHANICAL ENGINEER

☎ (+1) 843-302-2643 | ✉ pasterckx@gmail.com | 🌐 petersterckx

## Education

### Clemson University

B.S. IN MECHANICAL ENGINEERING

- Graduated *summa cum laude*, GPA 3.98/4.0
- Clemson National Scholars Program, *full academic scholarship program*
- Honors College

Clemson, SC

2016 - 2020

### Georgia Institute of Technology

GEORGIA TECH LORRAINE STUDY ABROAD PROGRAM

Metz, France

Fall 2018

## Work Experience

### Robert Bosch GmbH

ENGINEERING CO-OP - 2ND ROTATION

- Supported mechanics and engineers during maintenance windows, troubleshooting a variety of mechanical and electrical systems
- Developed a web-based system for tracking robot arms and controllers
- Guided the conditioned-based maintenance team by leading weekly meetings and analyzing and presenting data through Excel and Power BI
- Verified and implemented designs for improved screw separator and press couplings on the final assembly lines

Charleston, SC

May 2019 - Aug 2019

### Robert Bosch GmbH

ENGINEERING CO-OP - 1ST ROTATION

- Redesigned and built a coolant monitoring system using Arduino
- Developed an automated visual schedule using Visual Basic, reducing downtime on the lines
- Created new ways to view and understand data concerning failure of multi-component systems

Charleston, SC

May 2018 - Aug 2018

### Clemson Makerspace

INTERN

- Worked 12 hours per week performing task such as machine maintenance, inventory control, equipment management, safety training, and project support
- Guided students as they used 3D printers, laser cutters, and other tools to build a variety of projects

Clemson, SC

Jan 2018 - May 2018

## Leadership and Involvement

### CUhackit Hackathon

CO-FOUNDER AND CO-DIRECTOR

- Clemson's student-run hackathon, a 24-hour idea-to-prototype event with 230+ participants
- Raised \$35K and acquired 8 sponsors for the inaugural event in the spring of 2018
- Lead a team of 20+ students to host two hackathon events on campus during the 2019-2020 academic school year

Clemson, SC

Oct 2017 - Feb 2020

### Clemson Continuum Robotics Lab

UNDERGRADUATE RESEARCHER

- Investigated the application of continuum robots to cement 3D printing applications
- Developed an analytical model for the tendon-tensions of a continuum robot experiencing nonzero gravity

Clemson, SC

Aug 2019 - May 2020

### IEEE Robotics

TEAM MEMBER

- Designed and prototyped mechanisms for stacking LEGO bricks for the IEEE SoutheastCon Competition

Clemson, SC

Aug 2019 - Mar 2020

## Skills

**Software** SolidWorks, Excel, Power BI, SAP

**Programming** Python, MATLAB, basic web development, Arduino, SQL

**Other** French (limited working proficiency), technical writing, project management

## Honors & Awards

2019 **Outstanding Junior**, Clemson Mechanical Engineering Department

2018 **Michelin Scholarship for International Programs**, Clemson Study Abroad

2016 **Eagle Scout**, Boy Scouts of America

Clemson, SC

Clemson, SC

Charleston, SC