



# Xavier Johnson

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## EDUCATION

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### University of Tennessee Knoxville

- Major: Mechanical Engineering | GPA: 3.68 | Sophomore | Expected Graduation Date: May 2024
- Robotics Club

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## WORK EXPERIENCE AND PROJECTS

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### Siemens Healthineers, Knoxville, TN | Mechanical Engineering Co-op | May 2021- Jan 2022

- Mechanical Engineering Co-op

### Bosch Home Appliances, Oak Ridge, TN | Quality/Design Engineer Co-op | August 2020-Jan 2021

- Developed, designed and modified different prototypes utilizing Siemens NX 12 and 3D printing
- Developed python script (GUI) that communicates to Home Connect API Simulators, reads information, and changes specific settings.
- Assisted quality engineers in developing a data analytical software program, analyzed failure symptoms and AR exchange data in excel and automated data entry tasks.

### Undergraduate Research Assistant, University of Tennessee | Robotics Lab | February 2021 – Current

- Assisted in researching the use robotic camera systems in minimally invasive surgeries (MIS)
- Designed and prototyped housing for electrical components, and actuator and driver board assemblies utilizing SolidWorks

### Wagner General Construction Inc, Memphis, TN | Summer Help | June 2019-July 2019

- Assisted construction workers in daily work and maintained a clean work environment while working at various locations in the city

### Lazy Dog Robot – EF 230 – Python Project – Spring 2020

- Created a speech recognition robot in python that understands different commands and responds and/or performs an action.
- The robot can tell the weather by utilizing an API, say different phrases based on input, give the time and date, and send an email including various resources that are tailored towards engineers.

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## SKILLS & QUALIFICATIONS

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- Proficient in Microsoft Word, PowerPoint, and Excel
- Proficient in SolidWorks, Siemens NX 12, Fusion 360, Teamcenter PDM, Nastran
- Experience with MATLAB, Python

