

# Summer 2021 Co-op at MTD Products

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Choose **Ohio** First

## Introduction

I worked in the Electrical Shared Services Department at MTD Products in Valley City Ohio, which consisted of various different engineers working on Programming software and electrical components. This took place during the Summer of 2021 and I learned of the opportunity during CSU's Fall 2020 career fair and was done for course credit in ESC 400.

## OBJECTIVES

- Apply Python skills previously developed at CSU
- Apply Linux skills previously developed at CSU
- Apply Agile skills previously developed at Lakeland
- Learn industry-standard project development tactics
- Develop collaboration skills by working with others on projects



Figure 1. Standard test mower I worked on.



Figure 2. MTD Valley City OH HQ

## Assignments

Two major assignments were given to me during my employment at MTD. The first was to test an over-the-air software updating application (pictured below). The second was to write an automatic testing program for the motors used in the mowers shown in Figure 1 & in Figure 4.



Figure 3. User Interface for Bluetooth Updating App.

## Lessons Learned

The first implementation designed for a project will never be the last implementation, constant tweaking and revision is needed to get to a satisfactory product.



Figure 4. Zero-Turn Mower, another type of mower I worked on.

## Future Career Objectives

MTD has helped me realize all of the skills I have spent the past 4 years developing, whether in Python, or just being able to work in a team, I would now like to branch out and apply these skills in the wider world of engineering and see what else it has to offer.

## Acknowledgments

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