



Piedmont Design Group/Wormald Companies



Gage Kirkwood

College Park Scholars – Science & Global Change Program

Mechanical Engineering

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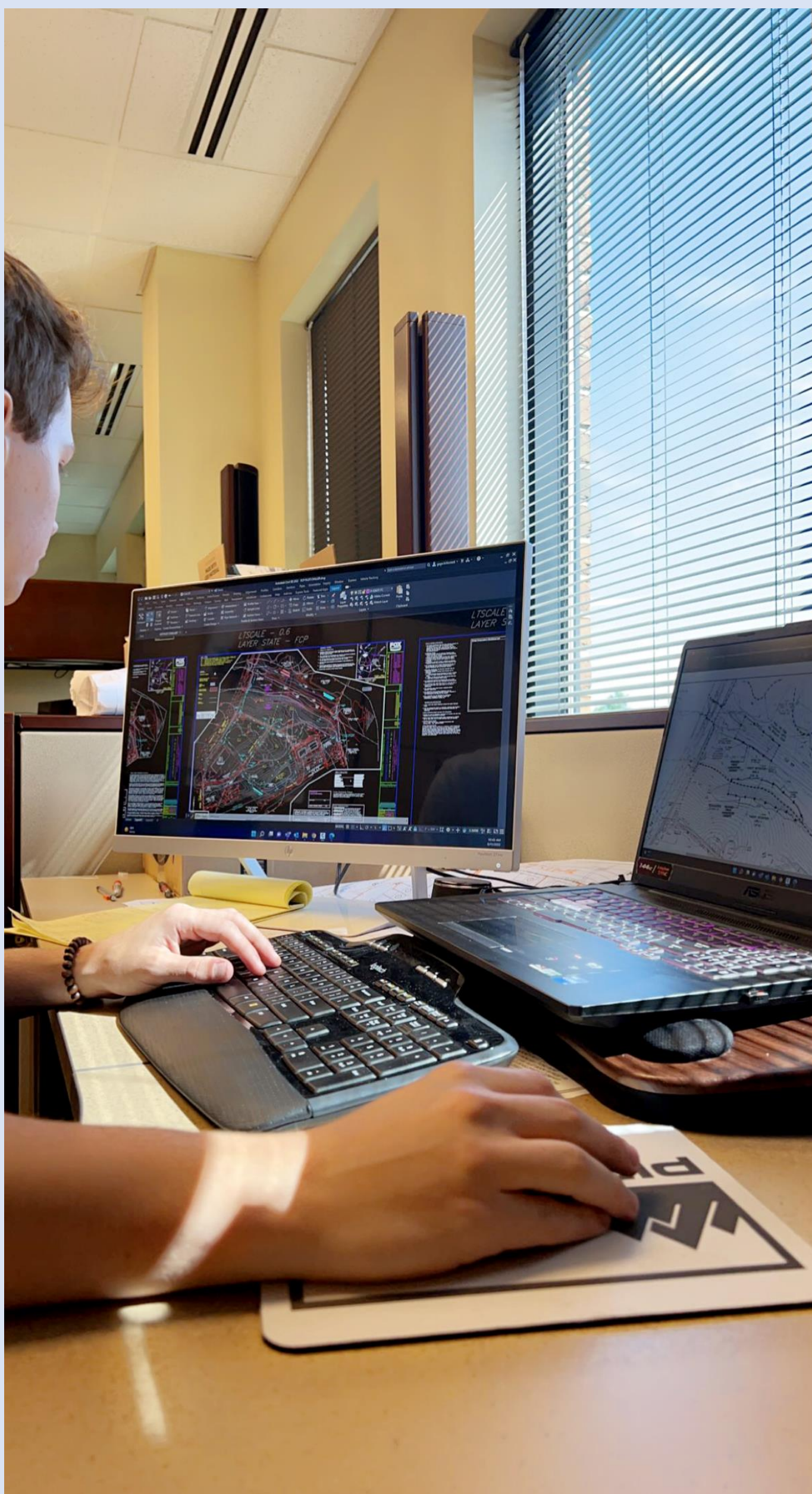
Introduction

Over the summer of 2022, I worked at the Piedmont Design Group in Frederick, Maryland for over 400 hours. Piedmont is a small professional services firm specializing in land development and civil engineering. Throughout the summer I gained a lot of experience teaching myself AutoCAD Civil 3D and completing projects with little assistance.

Activities

Some of the activities I accomplished while working here included:

- Prepared and submitted various Forest Conservation plats for county review
- Surveyed and collected field data at project locations
- Worked on numerous cost estimates for proposed sites
- Helped design and classify sewer connections for local area projects



Using AutoCAD Civil 3D to accomplish tasks

Site Information

Name of Site: Piedmont Design Group

Address: 5283 Corporate Drive, Suite 300 Frederick, Maryland 21703

Your supervisor: Michael T. Wiley

The site mission: Complete a wide variety of engineering tasks

<https://piedmontdesigngroup.com/about-us/>



Piedmont Design Group LLC, Frederick, Maryland

Impact

Over the course of the internship, I was impacted in several ways. For example, I feel I've gained a lot of experience working with software used in an engineering environment and I've learned what it was like to collaborate with other engineers and professionals in a real-world setting. All in all, my experiences have reinforced the fact that engineering is the field I want to pursue for my career.

Future Work

In the future, I would like to be working in a related field where I can use similar software to design machines/parts in a mechanical setting. I believe that the knowledge I have gained while interning has prepared me to be able to adapt within various company structures.



Discussion

Many days I was tasked with completing various types of plats for our different project locations. This involved designing, editing, and printing plats for review for my supervisor. Also, the staff had several meetings during the week to go over our end-of-week goals and what needed to be done to accomplish them.

Acknowledgments

I would like to thank my site supervisor Michael Wiley and the staff of Piedmont Design Group as well as my Science and Global Change professors Dr. Holtz and Dr. Merck.



SCIENCE AND GLOBAL CHANGE

