

**MICHAEL J. WOODS**

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## **OBJECTIVE**

Seeking a summer internship in the civil engineering field (construction, structural, or geotechnical), utilizing problem solving, technical, communication, and presentation skills

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## **EDUCATION**

**The University of Connecticut, Storrs**

*Bachelor Science in Engineering, Civil, May 2024*

*GPA: 3.97/4.00, Dean's List*

*Relevant Courses:* Basic and Advanced Structural Analysis, Design of Steel Structures, Principles of Construction I and II, Computer Aided Site Design, Mechanics of Materials, Statistics

## **SKILLS**

*Engineering Software:* AutoCAD, SAP2000, Abaqus, Microstation, OpenRoads

*Coding:* MatLab, Python

*Microsoft:* Excel, Word, Powerpoint

## **CLASS PROJECTS**

*Finite Element Analysis of a Truss Structure*

- Designed a truss system on Abaqus and interpreted software output for stresses and deflections under a variety of loads using finite element analysis methods

*Design of Moment Frames*

- Analyzed a given moment frame on SAP2000 and altered cross sections, material properties, and load combinations to test frame performance

*UConn Solar Tree Initiative Proposal*

- Sketched a "Solar Tree," a 10' tall metal tree with attached solar panels and charging stations, on AutoCAD for proposal to sustainable engineering initiative at UCONN

## **ACTIVITIES**

**The University of Connecticut Honors Program**, September 2020 - Present

- Organize and complete additional class projects that extend beyond in-class knowledge, including performing calculations and designing cross sections for a scaled down model of a moment frame and researching additional topics to write term papers
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## **EXPERIENCE**

**Mathnasium**, Denville, NJ

*Tutor*, December 2019 - January 2021

- Teaching of math concepts for students K-12, with topics ranging from reading clocks to early calculus

**Party City**, Randolph, NJ

*Sales Associate*, June 2018 - November 2018