

Caitlin Nicole O. Bugash

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SUMMARY

Organized senior with work experience in drafting permits and acquiring technical skills in timber engineering. Goal-oriented collaborator seeking job opportunities in civil engineering and interested in sustainability and wood building design.

EDUCATION

University of Massachusetts Amherst

May 2020

Bachelor of Science in Civil Engineering – GPA 3.35

Commonwealth Honors College, iCons (Integrated Concentration in Science) Program

RELEVANT COURSES

Design of Wood Structures, Design of Steel Structures, Design of Concrete Structures, Transportation Sustainability, Foundation Engineering, Soil Mechanics, Introduction to Environmental Engineering

RESEARCH EXPERIENCE

Honors Thesis Senior Project – “Connections in Cross Laminated Timber using Eastern Hemlock” Fall 2019

- Will make several CLT timber specimens to test the strength of adhesive on plywood connections
- Will gain technical skills with wood shop tools and MTS testing machine
- Will test specimens to see which connections work best for Eastern Hemlock CLT

ACADEMIC PROJECTS

Wood Truss Project

Fall 2019

- Will design a wooden truss with a team of five people
- Will build a wooden truss with the team using spruce, pine, and fir lumber, glulam, and steel rods
- Will test the strength of wooden truss under loading

Design of Steel Components of Student Union Building

Fall 2019

- Will design basic steel members of Student Union Building using AISC manual and ASCE 7
- Will use SAP2000 to model shear and moment diagrams for different steel members
- Will use construction drawings to calculate loadings and look at beam dimensions

Concrete Mix and Testing

Spring 2018

- Developed concrete mix to meet compressive strength based on different properties
- Prepared the concrete by batching and mixing and performed different strength tests

WORK EXPERIENCE

MassDOT District 5, Permits Intern, Taunton, MA

Summer 2018

- Assisted in logging in new permit applications, processing application fees, performing other miscellaneous office duties such as writing emails, answering phones, and filing
- Drafted letters and simple utility permits as well as developed spreadsheets of useful information

CO-CURRICULAR ACTIVITIES

Society of Hispanic Professional Engineers, UMASS Amherst, Treasurer, Fall 2017 – Present

UMASS Amherst Minuteman Marching Band, UMASS Amherst, Member, Fall 2015 – Fall 2018

COMPUTER SKILLS

MS Word, MS Powerpoint, MS Excel, MATLAB, Web Design (HTML & CSS), SAP2000