

# James Cicconi

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## SUMMARY

Dedicated civil engineering graduate with construction management background, laborer skills, and highway design experience

## EDUCATION

**University of Massachusetts Amherst**

May 2019

*Bachelor of Science Civil Engineering*

**University of Massachusetts Lowell**

2015-2016

RELATIVE COURSEWORK - Surveying, Fluid Mechanics, Environmental and Water Resources Engineering, Soil Mechanics, Engineering Geology, Strength of Materials, Structural Analysis, Reinforced Concrete Design, Transportation Systems, Traffic Engineering, Highway Location and Geometric Design, Programming for Civil Engineers, GIS for Civil Engineers

## ACADEMIC PROJECTS

### **Introduction to Civil Engineering Building Project**

Fall 2016

- Worked in a group to design a mock building for the University of Massachusetts Amherst
- Calculated reaction forces acting on the new building and used AutoCAD to create drawings of the new building
- Calculated costs of constructing new building and forecasted travel demand using trip generation process
- Presented the new building to teachers and peers

### **GIS Renewable Energy Project**

Spring 2019

- Worked in a group to build a renewable energy portfolio for East Hampshire County, MA that incorporates solar photovoltaic arrays, wind turbines, and hydropower
- Downloaded appropriate data from GIS sources to produce a map of solution and calculated the total expected energy production and cost of solution

### **MATLAB Labs**

Fall 2019

- Used MATLAB to perform lab assignments pertaining to commands, variables, vectors, matrices, data files, data types, scripts, loops, functions, graphics, and programming

## EXPERIENCE

### **Cicconi and Son's Construction Co. Inc., Boston, MA**

*Junior Project Manager, Laborer:*

Summers 2009-2018

- Assisted in the management of various roadwork and sidewalk projects
- Assisted in estimating project costs
- Created Excel spreadsheets for measured and recorded quantities of materials used on projects
- Communicated effectively with laborers, engineers, inspectors, and other members of project team
- Obtained necessary permits from Boston Department of Public Works
- Excavated, poured, and finished concrete sidewalks and handicap ramps

### **MassDOT, Arlington, MA, Highway**

*Design Intern:*

Summer 2018

- Assisted in replacing existing non-operating draw bridge with a new fixed bridge
- Prepared plans, designs, specifications, and cost estimates for highway and bridge construction
- Performed calculations relating to quantity of materials
- Conducted field investigations to gather information needed to resolve construction, environmental, or traffic problems
- Inspected construction operations and maintenance work to ensure work is being performed according to specifications
- Reviewed applications for licenses or permits for transportation of materials and for the construction of projects
- Reviewed construction and service contract payment estimates for materials, equipment, and supplies
- Prepared engineering reports, collected engineering data, maintained records, and operated technical equipment
- Tested concrete and asphalt for standard specifications
- Prepared PowerPoint regarding internship and presented to peers and MassDOT employees

SKILLS - GIS, MATLAB, AutoCAD, SAP2000, Microsoft Office Suite, Solver, Visual Basic Program

ACTIVITIES - Men's Club Ice Hockey Team; Volunteer: JDRF, Walk for Hunger, East Coast Jumbos Hockey Team, Waltham Youth Hockey