

MICHAEL F. VITTIGLIO, EIT

PROFESSIONAL EXPERIENCE

Beals Associates, Inc., Boston, MA

2019 – Present

Project Engineer, EIT

Specialties: Civil Engineering Design and Permitting, Feasibility Studies, Research, Project Permitting and Presentation, Land Evaluation, Project Management and Quality Control

- Create conceptual base plans using GIS data from Mass GIS and other GIS sources.
- Employ 3D modeling software for conceptual planning
- Perform feasibility studies, due diligence research and registry research
- Utilize AutoCAD Civil 3D to create 3D models of utilities, roadways, and stormwater networks
- Design and analyze stormwater management facilities and wastewater treatment facilities
- Prepare and review construction documents and submittals
- Perform soil evaluations and test pit loggings

Static Consulting, Burlington, MA

2018 – 2019

Civil Engineer, EIT

- Used knowledge of general concepts of relevant civil engineering elements including conveyance system hydraulics, surveying and topographic mapping, geotechnical considerations, grading, utility investigations and analyses.
- Worked efficiently with small and large teams to meet deadlines to comply with governing agencies standards such as MassDOT, Massport Authority, and other local permitting authorities
- Gained experience in AutoCAD Civil 3D developing pipe networks, profiles, and corridors.
- Performed routine site inspections and peer reviews for clients

CHA Consulting, Norwell, MA

2017 – 2018

Assistant Engineer

- Assisted civil engineers with municipal, private, and government projects for clients involving roadway designs, drainage solutions, site layout designs, and concept plans.
- Gained experience in AutoCAD civil 3D, HydroCAD, GIS systems, and technical writing skills.
- Prepared and reviewed site plan applications by working efficiently with a small team to meet deadlines and comply with Conservation Commissions, client needs, and local permit granting authorities.
- Assisted with the preparation of engineering plans, details, reports, specifications and construction cost estimates.
- Completed field assignments, data collection and construction observations.

Engineering Alliance, Saugus, MA

2016

Assistant Engineer

- Achieved timelines by working efficiently while collaborating on a small team to comply with BWSC, Conservation Commissions, and other local permit granting authorities.
- Gained experience in blueprint reading, preparing maps/plans, and writing technical

specifications.

- Assisted civil engineers on several key government projects involving roadway designs and improvements, drainage solutions, solutions easing traffic congestion, and replacement of deteriorating bridges.
- Gained experience in surveying and mapping sites to draft as-builts, site plans, and utility drawings in AutoCAD Civil 3D.
- Helped with cost-of-materials estimations, report and document tracking, project documentation, on-site project visits, invoice/agreement verification, and building permit applications.

James T. Lynch Construction, Andover, MA

2015

Intern

- Participated in client consulting and learned how to explain technical processes with clear roadmaps for project timelines, installations, materials, and forecasted costs. Assisted in estimation process, takeoffs, bid- proposals.
- Designed plans, successfully creating unique environments reflective of the client's vision for development.

EDUCATION

Bachelor of Science, Civil Engineering, University of New Hampshire, Durham, NH

PROFESSIONAL LICENSURES

Engineering in Training (EIT)
Soil Evaluator

RELATED ACADEMIC PROJECTS

Senior Capstone Project

Worked with four students to successfully design a 125' suspension bridge in West Newbury, MA.

- Worked with CONCOM and other local permitting grants to sustainably design without affecting local wetlands.
- Performed topographic survey of the site.
- Performed foundation calculations for bridges concrete anchor block sizes.

Waste Water Treatment Plant Design

Worked with a group of five students to design a new wastewater treatment plant in Newmarket, NH.

- Worked with TR16 and other manuals.