



STEM Career

ETHAN

**CIVIL AND STRUCTURAL
DESIGNER**

**MACHIN
ENGINEERING**

CORE TASKS

- Complete site plans and fabrication drawings for various civil projects
- Design and produce drawings using AutoCAD and drafting machines
- Use simulation software to create 3D models
- Use technical writing for reports, including internal and external communications

OUTLOOK



**Job demand
holding steady**



**Check out
occupations as an
Architect or a Civil
Engineer**

ANNUAL SALARY RANGE

\$36,590–\$83,740

MICHIGAN



\$34,760–\$79,420

**NORTHWESTERN
MICHIGAN**

- Salary information from O*net

Ethan's career advice:

**Be prepared to continuously learn,
it will be a huge benefit.**

**I took an additional course in civil drafting to improve
my skills and my employer paid for it!**

Ask for learning opportunities.

HIGH SCHOOL CAREER TECH OPTIONS

- Charlevoix Emmet ISD Career Tech Programs: Drafting & Design; Construction Technology
- Northwest Education Services Career Tech Center: 3D Drafting; Engineering Academy; Mechatronics; Construction Trades
- Wexford Missaukee ISD Career Tech Center: Applied Construction Technology



ENGINEERS MAY HAVE AN ASSOCIATE; OFTEN HAVE A BACHELORS DEGREE

**You can start your post-secondary
education with an associates degree
from from any of these**

- Kirtland Community College
- North Central Michigan College
- Northwestern Michigan College
- Westshore Community College
- Baker College

FOCUSING ON CAREERS NEAR YOU



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