



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!**



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 USUALLY 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



Northwestern Lower Michigan Region



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