

# Engineering



## Do you...

- Enjoy math, technology or science?
- Do you like drawing and building structures?
- Have the ability to be accurate, analyze data and solve problems?
- Like developing new ideas and projects?
- Like using machines and heavy equipment?
- Are you curious about how things work?
- Do you like reading diagrams?
- Develop new solutions to technical problems?

## Courses to Consider:

- Drafting
- Construction
- Robotics
- Earth & Physical Science
- Environmental Science
- Electronics
- Physics

## Career Options (just a few) :

**Construction** - Construction Project Managers. If you like the view from the top, this is one of the best careers in construction for you. ([job](#)) ([video](#))

**Architectural Designer** - person that is involved in the design process of buildings or landscapes. ([job](#)) ([video](#))

**Mechanical Engineer** - Mechanical engineers design, build and test machines, engines and other mechanical devices. ([video](#))

**Surveyor**- A surveyor determines property boundaries by taking precise measurements. ([video](#))

**Electrician vs Electrical engineer**- Electrical engineers design, test and oversee the manufacturing of electrical equipment, including power generation systems, electric motors, communications devices and navigation controls. They find solutions to electrical problems by modifying current processes or developing new ones. Electricians install, maintain and repair electrical systems in homes, businesses and industrial facilities. They read blueprints and specifications, inspect existing installations, advise customers on the costs and times of repairs, and fix problems using hand and power tools ([video](#)) ([job](#))

## Resources:

### Lower Elementary

Engineer Design : Shoo,Bird,Shoo ([activity](#))

Architecture Design : Architecture, It's Elem. ([activity](#)) ([lesson](#))

### Upper Elementary

Engineering simple machines ([activity](#))

STEM jobs in MI - 4 min video ([click here](#))

### General resources

General info video ([click here](#))

Great resource - My Next Move ([click here](#)) ([click here](#)) for access to a folder containing activities.

Michigan Career Pathway Poster ([click here](#))

[Click here](#) for activities from the Bureau of Labor Statistics

Occupational Outlook Handbook - employment in Engineering ([click here](#))

Career exploration is a gift. It's an opportunity to have discussions around interests, dreams and goals of our students. Encouraging children's curiosity is a worthy goal!

Jenny Taratuta- Career Navigator, Hilman and Atlanta Community Schools ( [access to links on school website](#) )

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