Make Your Own Wearables Workshop

WHAT IS AN ENGINEER?
WHAT comes to mind when you hear “engineering”? 

Math

Science

Physics/Mechanics

Buildings

Robots

Labs

Images © sources unknown. All rights reserved. This content is excluded from our Creative Commons license. For more information, see http://ocw.mit.edu/help/faq-fair-use/.
WHO comes to mind when you hear “engineer”? 

Car Mechanic

Mark Zuckerberg

Big Bang Theory
Characters

Big Hero 6

Thomas Edison

Images © sources unknown. All rights reserved. This content is excluded from our Creative Commons license. For more information, see http://ocw.mit.edu/help/faq-fair-use/.
Engineers are problem-solvers who understand and integrate many disciplines.
Engineers look like you and me, and are all around us

Janille is a mechanical engineering graduate student, and she writes code for ocean robots so they always know where they are and can talk to each other.

Katie is a mechanical engineer who designs medical devices that help make doctor's and patient's lives easier.

Grace is an ocean engineer and SCUBA diver; she develops technologies to help us better understand and manage the oceans.

Jackie is a mechanical engineer who built a racecar on the MIT FSAE team. Currently, she builds robots for the Jet Propulsion Laboratory.

Madeline is a mechanical engineer who designs satellites at Boeing and Co-Founded the non-profit, Latinas in STEM.
Engineering can be applied to whatever your passion is.

**Fashion, Cars, Healthcare, Energy, Social Media, Communication, Music, and Education**

© James Duncan Davidson/TED 2014 Conference/AP Photo. All rights reserved. This content is excluded from our Creative Commons license. For more information, see [http://ocw.mit.edu/help/faq-fair-use/](http://ocw.mit.edu/help/faq-fair-use/).

© Pinterest. All rights reserved. This content is excluded from our Creative Commons license. For more information, see [http://ocw.mit.edu/help/faq-fair-use/](http://ocw.mit.edu/help/faq-fair-use/).

Courtesy of Kristen Railley. Used with permission.

Courtesy of Ministry of Supply. Used with permission.

Courtesy of S 400 HYBRID. Used with permission.
Engineering is kind of a big deal

- US Labor predicts 1.4 million job openings for computer-related occupations this decade
- STEM job growth is outpacing the rest of the economy by about 300%
- Average starting salary at $60K, that’s almost $15K more than the average college grad will make in their first year in the workforce.

What problems do you want to solve in the world? What are your passions and interests?
Goal: Discover what engineering is, how to apply it, and gain engineering skills