Make Your Own Wearables Workshop

PARTICIPANT FEEDBACK

What worked well?

- Speakers were very engaging (and presentations)
- The speakers were great, I loved the tour, and the firewalker demo was interesting
- The different activities were interesting
- I loved the presentation of the prosthetics and the heat bracelet. Also the 3d printing
- I worked well with my partner and the projects were exciting
- 3d printing and CAD
- Group size, balance between hands on and lecture
- Getting to see the lab
- Adafruit was pretty cool
- Designing a bracelet
- Peanut butter jelly example
- Hands on activities
- The projects were fun and everything worked well
- 3d printing and solidworks
- I loved the tour and speakers
- You did a good basic overview of each part!

PARTICIPANT FEEDBACK

What was your favorite part?

- Learning about 3d printing in TOIL
- The TOIL tour
- Coding
- 3d printers
- EVERYTHING!
- TOIL Tour
- Messing with the code once we got the firewalker to work
- I liked hearing about the prosthetics and actually building something
- The code and watching the 3d printers
- Seeing the code in real life
- The talks were also really cool
- Designing a bracelet
- I really liked Solidworks. We had fun designing bracelets and changing the design
- Computer programming
- The speaker about the prosthetic feet
- My favorite part was learning about the bracelet that can control your temperature
- I enjoyed hearing from Kate and Mike about their engineering projects
- The cad programming worked well. I feel like even though we followed a tutorial, we ahd enough time to later play around with solidworks and learn how to use it. I also enjoyed the cooling and heating bracelet presentation
- Finally getting the LEDs to light up!

PARTICIPANT FEEDBACK

What did you learn?

- How to use CAD
- More about coding!!!
- How to code with Arduino
- How 3d printers work, how circuits work
- I loved learning about prosthetics
- What an engineer does and what it is like to work with.
- 3d printing stuff
- How to code
- All the different kinds of 3d printers
- How to use arduino
- How to use CAD
- The design process
- More about designing on a computer and a bit about programs and circuit
- I learned more about coding and the need for being very descriptive in your commands
- I learned a lot about different areas of engineering I didn't know even existing.
- A LOT. How to use CAD, make a LED light up shoe, about all the tools, temperature controlling bracelets
- I learned how to code and that it takes a lot of patience but in the end it pays off
- I learned what computer programming is about

PARTICIPANT FEEDBACK

What new skills do you see yourself using again?

- Using Cad
- Programing definitely
- I want to become an engineer. Also I can use these skills at school.
- 3d printing
- Possibly going into the prosthetics engineering.
- 3d printing
- Coding and building
- Understanding more about pressure and energy
- Solidworks and firewalker
- Coding +1+1
- Solidworks
- Computer programming
- The Arduino
- circuits

PARTICIPANT FEEDBACK

What could we do better?

- Maybe spread over a weekend
- A better/more detailed intro coding
- Organize the coding better
- More explanation on programming
- Better detail to intro to coding
- Being more thorough with explanation
- Clearer instructions
- More hands on option for the coding
- More hands on for solidworks and Arduino (so many people per computer it was hard)
- Explanations
- More laptops so that everyone could work at once
- At the end the last part was not that interactive because there was a lot of waiting
- Being more thorough with the instructors
- More computers
- Use an example of computer programming that allowed us to write more code ourselves

PARTICIPANT FEEDBACK

Is there anything you would like to share?

- I would definitely come back next year
- I LOVED THIS WORKSHOP!
- I loved it! It was satisfying when the shoe lit up. I now want to get into more programming
- I have a new idea of being a polymer engineer
- The knowledge I learned was incredible
- Loved this event!
- I loved this program and I think it was an amazing experience
- The lunch was good!
- I really liked the program as a whole, thank you!
- Thanks so much it was really fun
- I can see myself using the information I learned about electrical engineering
- I had a lot of fun, thank you for organizing this!
- Super cool!

Summary (Kristen's thoughts)

More computers definitely, logistically it was tough but I completely agree with the girls. More in depth explanation for the coding- for girls who have never touched it before. More advanced coding problems for the girls who have coded before. I like the idea of spreading it over two days, the girls wanted more explanations to the things we taught them and we could only touch the surface of things in a one day event. I thought we did an incredible job considering the logistics of using computers and fitting so much material into one day. More prep for programming volunteers is recommended.

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