Acoustic Sensor Arrays in 3D Printing Progress Check

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- **Hobbies:** Gardening, cooking and reading
- **Fun Fact:** I have never been out of the country

Mekhi Connor

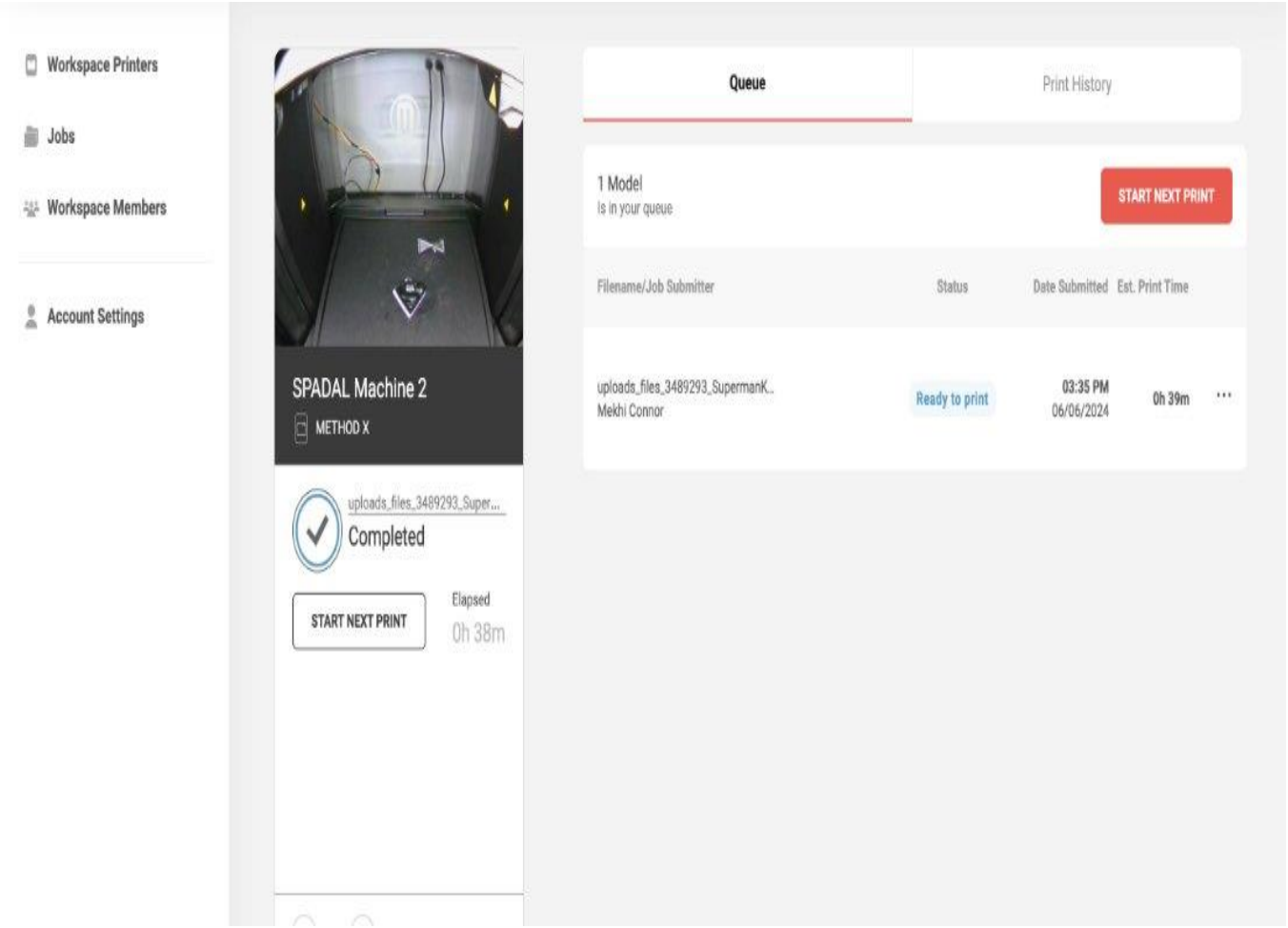
- **Status:** Third-Year Computer Engineer
- **Hometown:** Philadelphia, PA
- **Hobbies:** Listening to music
- **Fun Fact:** I write Poetry

What have we learned?

- Acoustic Sensors is a technology that involves detecting, analyzing, and interpreting sound waves to gather information about the environment or a specific object. Though the sound wave that it picks up it manages to monitor and measure various parameters.
- Cloud Printing is a technology developed by Google in 2010 that allowed you print to documents and photos from anywhere using any device, and you could print document through any computer.

- How to reload the filament in the MakerBot Method X.
- Learned how to print basic items in the MakerBot Method X.
- Tested cloud printing concept and monitored our Item after we left the laboratory.
- Basic Laboratory Etiquette.
- Basic presentation skills.

What have we learned Cont'd



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What we hope to learn!

- How to setup the audio recording of 3D printer on computer.
- Which frequencies work best while recording.
- What is the most optimal software to use for recording the sounds the 3D printer makes.
- How to differentiate the good sounds from the bad sounds.
- How to compare our recorded audio to different sensors installed within the printer for optimal sound.

Technical Difficulties

- We could not figure out how to set up the audio for recording the sounds made by the 3D Printer.
- We could not figure out which software to start with.

We will be researching ways to solve these difficulties using YouTube, Google, etc.

Thank You!