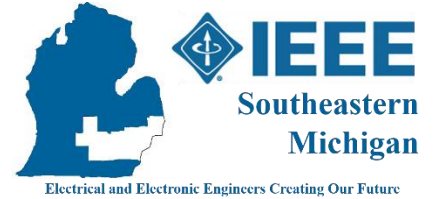


**IEEE SE Michigan Section  
Presents the 2021 IEEE Rising Stars Competition Winner:  
"Two novel, low-cost sterilization systems"**



In response to the COVID-19 pandemic, Katie's team has designed and constructed two cost-effective, scalable, and sustainable sterilization systems for the inexpensive deactivation of SARS-CoV-2. The first system utilizes ozone gas to inactivate viral particles, while the second uses vaporized hydrogen peroxide. The team hopes to expand these inexpensive technologies to provide developing or rural regions with better access to sterilization devices.

Katie Pascavis is a sophomore at Arizona State University studying mechanical engineering and global health. She is a co-team lead for the ASU's Engineers Without Borders – an international team. She works as a researcher and team lead for Luminosity Lab, an interdisciplinary research and development lab, on COVID-19 response projects, including the XPRIZE Next Gen mask and gaseous sterilization systems.

Nathaniel, is a 2nd year Barrett Honors College student at ASU, majoring in Biological Sciences, Applied Quantitative Science, Political Science, and History. Nathaniel's work has been important in building partnerships and creating educational tools through Luminosity Lab, a prominent research and development lab that prototypes innovative solutions to societal challenges.

**At Glance**

- **When:**  
Date: May 11<sup>th</sup>, 2021  
Time:  
6:00 – 7:00 PM EST/EDT  
(3:00 PM Arizona Time)
- **Where:**  
Online via Webex (to be shared only after you have a confirmed registration)
- **Audience:** OPEN to ALL\*

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**Pre-Registration Required!**  
<https://events.vtools.ieee.org/m/271245>

