



## Anand Vikas Lalwani

Ph.D. Student, Electrical Engineering

### Bio

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#### BIO

Anand is a Graduate Student researcher in XLab (advisor: Debbie Senesky).

Anand's research work includes developing and deploying sensors for environmental and energy industries. Sensors developed include techniques for Hall Effect sensors to measure AC magnetic fields, deployable and low cost ammonia sensor for rivers and lakes, CO2 sensors for down-hole applications.

Anand's interests outside of research include startups and solving problems. Anand is committed to developing technologies that tackle pressing issues and translating work from lab into a startup.

#### HONORS AND AWARDS

- Impact Fellowship, Coding It Forward (2020)
- Global Innovation IoT Award, Keysight Technologies (2019)

#### EDUCATION AND CERTIFICATIONS

- Masters of Science, Stanford University , Electrical Engineering (2020)
- Bachelors of Science, Brown University , Engineering Physics (2018)

#### PATENTS

- Anand Lalwani. "United States No-switching AC magnetic Hall-effect measurement method", Leland Stanford Junior University
- Anand Lalwani. "United States Remotely operated disinfection system and method for sanitizing large facilities"

### Research & Scholarship

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#### LAB AFFILIATIONS

- Debbie Senesky, XLab (8/30/2018)

### Publications

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#### PUBLICATIONS

- **Selective aqueous ammonia sensors using electrochemical stripping and capacitive detection** *AIChE Journal*  
Lalwani, A., Dong, H., Mu, L., Woo, K., Johnson, H. A., Holliday, M. A., Guo, J., Senesky, D. G., Tarpeh, W. A.  
2021