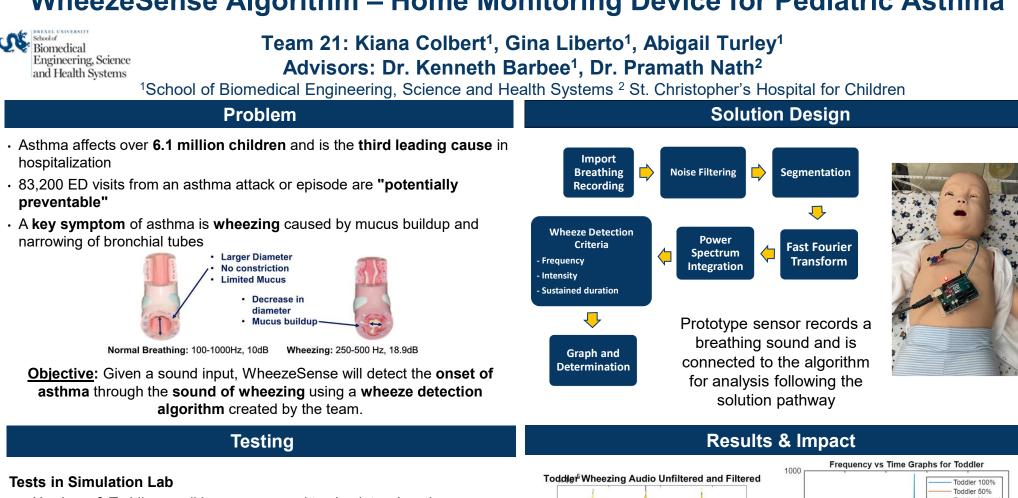
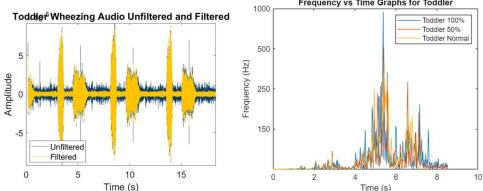
WheezeSense Algorithm – Home Monitoring Device for Pediatric Asthma



- Newborn & Toddler manikins programmed to simulate wheezing Operator chooses manikin conditions unknown to team and will confirm or
- deny determination

| Requirement | Met: Y/N/TBD |
|--|--------------|
| R1 – Code outputs graph with determination of healthy or wheezing | Y |
| R2 – Algorithm filters <150 & >1000 Hz | Y |
| R3 – The sensor taking in sound input and creates an audio recording | Υ |
| R4 – False positive rate ≤ 10% | Y |



Parents/Caregivers: Gives parents peace of mind and helps to provide knowledge for when to administer medication or go to the ED.

Doctors/Health Care Professionals: Provides comprehensive patient history based on recorded wheeze data.

Insurance/Monetary Value: Saves money by eliminating preventable ED visits.