



2025 Young Innovator Award

BEST UNDERGRADUATE
INNOVATION DISCLOSURE

PULSEtastic

Innovators:

Petie Deveer | Hailey Hodgins |
Adrian Burke



- Developed by Petie Deveer, BA in Computer Science, Adrian Burke, BS in Computer Engineering, and Hailey Hodgins, BS in Mathematics advised by Dayne Broderson, ACEP.
- PULSEtastic is a program that simplifies converting a feed of data into a series of Meshtastic messages by interfacing with a serial-connected radio device. Data is encrypted and routed through a decentralized mesh network.
- The program allows for automated data collection over long distances, in cellular dead zones, splitting data packets larger than the Meshtastic character limit.
- It is easy to integrate with Node-RED visual programming language. Students can easily route received data into dashboards or automations.