GOOD NEWS

From Public Invention

RECENT ACCOMPLISHMENTS

by inventor(s) or invention teams

- **Dr. Robert L. Read** will be speaking about the **Freespireco project** next week **(July 28th-31st)** at the **Southern California Linux Expo (SCaLE 19x)**.
  Intro Video Link: Click Here!
  Expo Link: Click Here!
- We had our 2nd ever **"Inventor Gathering"** and will continue to host virtual meet ups *every month* on the *3rd Thurs (8pm CST) via rehive. Rehive link: Click Here!*

OPPORTUNITIES

- Make a Public Invention/humanitarian engineering club at your school using this source: **link**
- Check out our current project ideas available for inventors and invention coaches to join: **Google spreadsheet**
- Do you have some progress to share with the general public/our membership regarding your current Public Invention project? Then submit your summarized efforts/any images to our Public Outreach Coordinator (Megan) for the next newsletter!
  Email: outreach@pubinv.org

QUOTE OF THE MONTH

"I believe in evidence. I believe in observation, measurement, and reasoning, confirmed by independent observers. I'll believe anything, no matter how wild and ridiculous, if there is evidence for it. The wilder and more ridiculous something is, however, the firmer and more solid the evidence will have to be."

- Isaac Asimov

We invent things that help all people. All of our work is in service to nurture humanitarian invention.

FOLLOW US!

OPENINGS FOR INVENTION COACHES

We're looking for Invention Coaches/volunteers interested in any STEM subject!

We offer existing project teams and concepts, but are looking for mentors to help facilitate teams of various experience levels.

Apply at the link below:
Volunteer Match Posting: <u>Click Here!</u>

Responsibilities:

We are looking for qualified mentors who have experience and prior education in STEM subjects. We are primarily seeking volunteer mentors to work with new/existing engineering teams to finish invention projects and seek either a project submission on our Github, research paper submission (if possible), or poster presentation at any conference.

Our goal is to create an open-source environment that nurtures scientists of any experience level so that more academic works are available to the general public. If you believe your interests align with our mission *(Our Website: <u>Click Here!</u>)*, then we encourage you to submit a letter of interest or any initial questions regarding this role to our Volunteer Coordinator, **Miriam Castillo** (*Contact Below*)

Volunteer Coordinator, Miriam Castillo
Email: volunteers@pubinv.org

OPENINGS FOR SOCIAL MEDIA INTERNS

We're looking for volunteer interns interested in media marketing and advertising

We are looking for college students interested in building their portfolios!

Apply at the link below:
Volunteer Match Posting: <u>Click Here!</u>
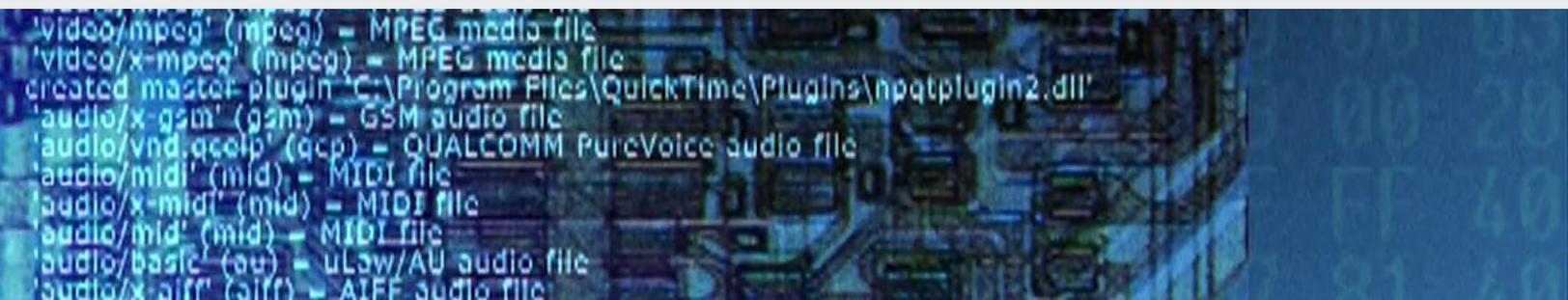Linkedin Posting: <u>Click Here!</u>

Responsibilities:

We are looking for college students interested in building their portfolios. We are eager to find a few volunteer social media interns who have experience marketing analytics, social media trends, or development of a brand to help us maintain media coverage for our several project teams. We are primarily seeking volunteers to work with new/existing engineering teams to post updates on our existing and new invention projects. Ideally, the volunteer would help us improve at least 1 project team while joining our team.

Our goal is to create an open-source environment that nurtures scientists of any experience level so that more academic works are available to the general public. If you believe your interests align with our mission **(Website: <u>*Click Here!*</u>)**, then we encourage you to submit a letter of interest or any initial questions regarding this role to our Volunteer Coordinator, **Miriam Castillo** (*Contact Below*)

Volunteer Coordinator, Miriam Castillo
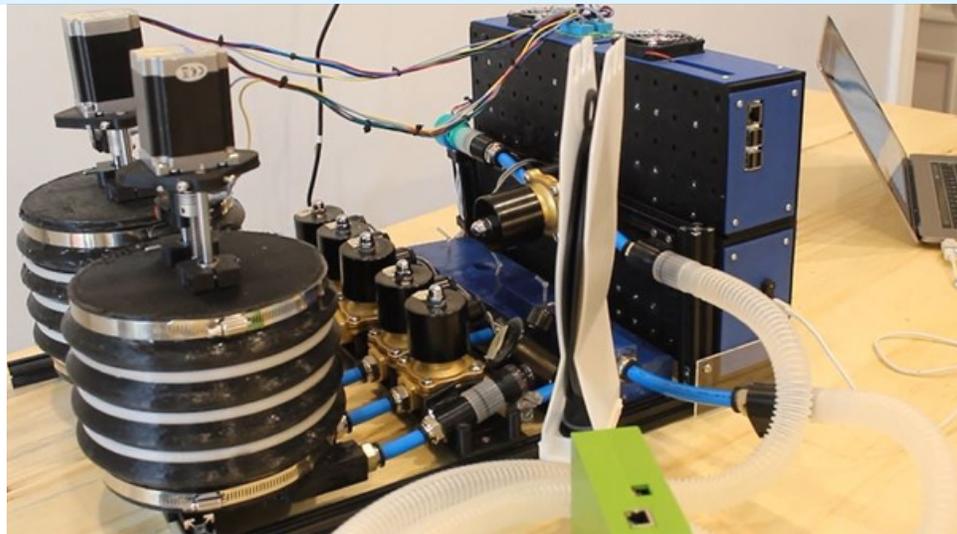Email: volunteers@pubinv.org

GENERAL PURPOSE ALARM MODULE PROJECT

Looking for volunteers interested in Arduino Programming & Hardware Design!

PolyVent Ventilation System

Want to make an impact?
___
Join our team!

Skills Needed!

- Arduino programming (PlatformIO to program the ESP32 hardware)
- Electromechanical design
- UX skills
- project management/product development
- I2C
- SPI (to communicate with SAMD21 motor controllers for stepper motors)

If you consider yourself an agent of change and want to improve the world, join us! Please submit your resume and a statement of interest to **volunteers@pubinv.org**

PolyVent Project Team

Our **PolyVent** team developed the ventilator system that will utilize the general alarm system you will contribute on!!
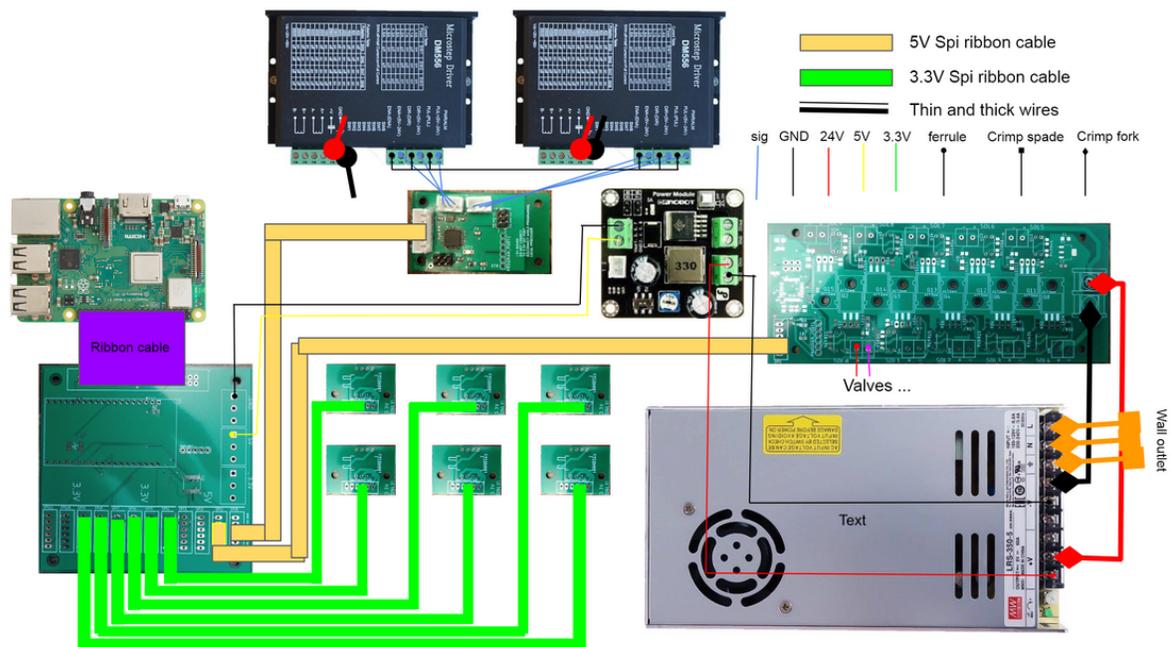
Check out PolyVent Efforts: Click Here!
Current Alarm Module Efforts: Link Here!

Apply at the link below:
Linkedin Posting: Click Here!
VolunteerMatch Posting: Click Here!

VENTOS PROJECT TEAM

ABOUT THE TEAM!

VentOS Project Mission:
*"To create a **free** and **open-source** software library and embedded operating system to enable engineering teams to develop safe and effective invasive and non-invasive ventilators for diverse contexts."*

The project aims to:

- support 100's of global hardware projects that started when world health authorities projected a ventilator short-fall
- help teams see the value found from pre-existing software/engineering works

The project was initiated by **Dr. Erich Schulz**, an Australian Anaesthetist along with **Dr. Robert Read**, PhD, of Public Invention. Then **Ben Coombs**, a New Zealand Engineer, and **Brittany Tran**, an ambassador soon joined their efforts.

We could use your help! Drop by the **Helpful Engineering slack channel** and tell us a bit about yourself and how you'd like to help.

Slack Channel: Join Here!

We have weekly team meetings **every Tuesday 5pm PST**. Please contact us on the Helpful Engineering Slack if you'd like to attend.

GitLab Repo Link: Click Here!

NOTE:
If you are interested in forming a team or joining our efforts as an invention coach, volunteer researcher, social media intern, or admin intern, then email our outreach coordinator here: **outreach@pubinv.org**

GET TO KNOW OUR TEAMS:

For Inventors and Invention Coaches

PolyVent Team - Medical Ventilator Design

Shaili Arjani, Nathaniel Bechard, Brandon Beierle, Austin Campbell, Pierre-Luc Charron, Rui Couto, Lukesh G. Dhangaonkar, Joodi Mourhli, Alisa Nussbaumer, Santosh Roy, Levi Türk, Sujay Umarjikar, and **Antal Zuiderwijk** contributed in the development of the PolyVent Ventilator. **PolyVent** is a diverse volunteer team of international engineers, scientists, clinicians and other professionals who have joined forces to design, build and produce a clinical-grade, open-source ventilator in response to the COVID-19 crisis and the resulting global ventilator shortage. You can **learn more about their efforts at this link: <u>Click Here!</u>**

Github Repo: <u>Click Here!</u>

NOTE: If you are an **Inventor, Invention Coach, or an external partner** interested in offering your feedback too, then **please email us at outreach@pubinv.org** to set up a possible interview or send us your testimonial typed!