Insert Name Here:	Insert School's Name Here:	Insert Date Here:

Application To Participate In STEM Research Project:

Portable Audio Sensor For Pet Environments

<u>INSTRUCTIONS</u>

Use the space provided in the text boxes to submit your answers. Please write in complete sentences .

Students must fill out, save and submit the application form in Adobe Acrobat PDF format. Acrobat software is available here: **get.adobe.com/reader**

Thank you,
PVNet

Please check the box(es) to indicate your skill(s):

☐ Programming Knowledge: Familiarity with programming languages like Python or Java would be beneficial for both sensor interfacing and data visualization.

☐ Electronics and Circuit Design: Basic understanding of electronics, including working with micro controllers (like Arduino or Raspberry Pi), sensors, and circuit design.

☐ Data Analysis: Basic skills in data analytics to interpret and visualize the data collected by the sensor.

☐ CAD Design: Must know how to use Fusion 360, a computer-aided design (CAD) tool for designing, and have familiarity with designing for 3D printing.

☐ Signal Processing: Understanding of basic digital and analog signal processing.

☐ Critical Thinking: Ability to approach problems methodically and think critically to find effective solutions.

☐ Teamwork: Capability to work effectively in a team, as this project would likely involve collaboration among different skill sets.

☐ Communication: Strong written and verbal communication skills for presenting ideas and findings.

☐ Time Management: Ability to manage time effectively to meet deadlines and project milestones.

☐ Attention to Detail: Careful consideration of the intricate parts of the project, from coding to data collection and analysis.

☐ Passion for STEM: A genuine interest in technology, engineering, or any STEM-related field.

☐ Willingness to Learn: Even if lacking in some technical skills, a proactive attitude and the willingness to acquire new skills.

☐ Commitment: Students must sign an agreement promising to keep their commitment to complete the project.

<u>Requirements</u>

Parents are required to have a parent/student account before this application may be submitted. Here is the link to do so: **classes.pvnet.com/signup**.

What subjects and activities are you interested in?

Briefly explain any prior experience you may have working on projects with a team.

Students must agree to complete this project, meet weekly with the team for 2 hours, and perform research and development on this project for a minimum of 1 hour per week between meetings.

Digital Signature & Date:

Send completed forms to: <u>EVENTS@pvnet.com</u>.

Questions? Send them to <u>EVENTS@pvnet.com</u>.

Document created by Chris M, PVNet Intern.