

Update website with a summary of what the team learned or agreed upon through this assignment:

Through working on assignment 4, we decided to split the team up into individual parts in order to accomplish finishing the project into time for the demo and final report. We recognized that the project involves multiple interdependent parts, like hardware setup, data collection, modeling, and documentation. Furthermore, our role breakdown is based on consideration of our respective strengths and interests. The following roles are outlined below:

- **Avi Dube:** Leading the hardware and sensing infrastructure. He is responsible for designing and assembling the 3D-printed enclosures for the sensors, as well as setting up the thermal sensing system. This includes integrating the DORHEA AMG8833 8×8 IR thermal sensor camera with the ESP32 development board to enable reliable occupancy data collection.
- **Dharun Muthaiah Nataraj:** Leading model development. He is responsible for building the machine learning pipeline and developing the predictive model for short-term (day-ahead) classroom occupancy forecasting, using the integrated dataset.
- **Stacy Godfrey-Igwe:** Leading project infrastructure and coordination. She is responsible for managing the GitHub repository, developing and maintaining the project website, and supporting data collection efforts, including gathering classroom-level information such as schedules and FCE-related signals.
- **Weronika Przedworska:** Leading classroom data collection efforts and supporting hardware. She has contributed to sensor assembly (including soldering components) and is working on collecting and validating classroom measurements to support model inputs.

All of us together: Working on assignments, sensor set-up, presentation / demos, analysis of data collected, and communication with Prof. Berges on key team needs.

The main takeaway from this assignment is that we learned we must split up the project in this way to make the best use of the remaining time we have left until the report is due. This structure allows us to efficiently progress toward our milestones for the demo and final report.