

**EE/CprE/SE 492 WEEKLY REPORT 1**

**Sep 10th, 2023 – Sep 16th, 2023**

**Group number: sddec23-19**

**Project title: Bluetooth-Enabled Ingestible Capsule to Monitor Gut Activity**

**Client &/Advisor: Santosh Pandey**

**Team Members/Role: Chase Thompson, Cutler Thayer, Tucker Thomas, Robert Zukowski**

○ **Weekly Summary**

We started meeting as a group again and got back into the flow of working. Small progress was made over various goals.

○ **Past week accomplishments**

- **Chase Thompson:** Began working on a prototype program that uses computer vision to detect different objects.
- **Robert Zukowski:** Began reverse-engineering schematic of existing board with IC given by advisor. Finally was able to determine the part number and pulled datasheets for relevant components.
- **Cutler Thayer:** Began using the collection of photos used for training data to begin making a basic image processing prototype to categorize images based on cancer risk.
- **Tucker Thomas:**

○ **Individual contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b>	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Chase Thompson	Worked on object detection code	1	1
Robert Zukowski	Board design work.	3	3
Cutler Thayer	Started making image processing code in python.	3	3
Tucker Thomas			

○ **Plans for the upcoming week**

- All Team Members:
- Chase Thompson: Continue working on object detection.
- Robert Zukowski: Sign up for free nordic semiconductor online bluetooth class.
- Cutler Thayer: Hope to finish this basic prototype for cancer risk based readings and add other things like polyps and bleeding.
- Tucker Thomas: