

**EE/CprE/SE 491 WEEKLY REPORT 5**

**Feb 27, 2023 – Mar 5, 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**

This week we continued our research on capsule endoscopy. Most of the current research being done is on Rapid Reading, figuring out what sensor information is helpful and how, parts and prices, and a third-party empathy map. We also finalized a group schedule now that everyone's semester is fully settled.

○ **Past week accomplishments**

- **Chase Thompson:** Did research into other companies working with these capsules. Continued to find more information about Rapid Reading and learning about that.
- **Robert Zukowski:** Helped discover future meeting times that work with everyone in the group.
- **Cutler Thayer:** Honestly did not do much this week as I needed to focus more on exams and projects for other classes. I did do research into parts for a little bit, but did not come up with any conclusions there.
- **Tucker Thomas:** Planned a meeting with Professor Pandey

○ **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	Did research on companies that worked on ingestible capsules. Began reading more papers regarding Rapid Reading algorithms	1	12
Robert Zukowski	Looked into meeting times that are available for the entire group. Began researching what information specifically is useful in diagnosing gastrointestinal issues.	1	11
Cutler Thayer	Researched parts, prices, and products, but I did not do anything with the information I researched.	1	12
Tucker Thomas	Brainstormed questions for a survey, the purpose of which is to gather data regarding how potential users feel about the technology. Asked friends and family about their opinions of the project as a whole.	1	11

○ **Plans for the upcoming week**

- All Team Members: Read the attached article about [already existing companies that are prevalent in this field](#).
- Chase Thompson: Discuss what I found about Rapid Reading technology with the advisor and come up with ways to find out more.
- Robert Zukowski: Discuss with the professor what constraints exist for what parts we need to buy/create. (same as last week, a meeting was not possible)
- Cutler Thayer: After our meeting with the professor this upcoming Monday, I should have a better understanding of what to focus on and where I should be looking now.
- Tucker Thomas: Discuss with the professor the constraints of the project and do more research on existing technologies.