

CS 347

Project: IoT "Hugs The Rails"

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Pledge: "I pledge my honor that I have abided by the Stevens Honor System."

Challenges and Excellences of the Experience

Challenges:

- Learning about existing data handling measures within modern trains
- Lack of in-person communication
- Adapting to the agile and incremental development process
 - Writing code incrementally as opposed to developing entire product in one sprint
 - Updating previous project documentation after integrating new features or solving existing issues
- Vague description of requirements and expectations of management for IoT system's hardware and software features
 - Great amount of time spent determining how to properly implement stakeholders requests within our project document and software
- Learning how to work with unfamiliar programming languages / libraries
- Creating a project document using a software engineering approach
- Managing time and workload between developers
- Developing testing environment

Excellences:

- Teamwork despite challenges
 - Developers were punctual and managed work evenly
 - Team adapted well to project changes
- Project document diagrams aided in understanding of material
 - Illustrated how the project was going to be programmed/coded
 - Details the data flows and behaviours of our system
 - Our documentation is thorough, making coding much easier
- Use Cases helped segment the project into distinct objectives

What we would do differently:

- Introduce the agile process earlier on within the project
- If the client brought forward a document that contained general information related to sensors and systems currently used within trains