Michael Kisellus
Scrum Leader
Group 8 (Portable Ultrasound Device for Coda-Wave Interferometry)

26Aug-7Sep

- Review and apply for projects
- Review scrum
- Review documentation requirements

12Sep

- Assigned a project with group 8 (Portable Ultrasound Device for Coda-Wave Interferometry)
- Familiarize myself with the team members
- Discuss project with team
- Read over project details
- Create GitHub

14Sep

- Establish communication with team (discord)
- Link GitHub accounts and review GitHub operation with team
- Establish communication with client (Professor Brown) through email
- Set up meeting with client to review the project and establish the projects requirements.
- Draft generic project vision and backlog based on provided information (final copy will be produced after meeting with client)
- Chose scrum leader through vote (Kisellus)

15Sep

- Meet with the client and confirmed project scope and requirements.
- Completed draft for product vision and product backlog.

19Sep

- Ask teacher if budget comes purely from client.
- Confirm with team that the product vision and backlog are correct. Modify as required.
- Rank tasks by importance and determine which team members are best suited to each task.
- Delegate tasks to begin work/design/research.
- Start getting a parts list to estimate price. (Estimated 2-week completion for estimate)
- Create project backlog through the issue system and assign tasks.

21Sep

- Work on design for electrical system (Lithium-ion batteries chosen)
- Correct vision statement
- Correct the backlog and add sprint designations

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26sep

- Note: a lot of work done this weekend. Draft of electrical system, draft of front panel, list of parts, capacitor size calculation, SDS drafted.
- Discuss project status
- Assign personal to SDD and SRS, placed on google drive for editing
- Schedule meeting with client for Friday at 1300 for status update and technical questions.

28sep

- SDD and SRS document work

29sep

- Meeting with client
- Verify pulse shape
  (2microsecond pulse wait and record for 100 microseconds then repeat 50 times)
- Request to audit parts list prior to approval
- Possible expansion to multiple sensors in the future (possibly next semester)

1oct

- Audit parts list and reconfirm calculations.

3oct

- Sprint power point presentation draft.
- Schedule meeting with client to retrieve test equipment.

5oct

- Sprint power point presentation

6oct

- Speak with client and verify parts list. (start purchase process)
- Obtain test equipment

10oct

- No Class: career fair.

12Oct

- Modify electrical schematic.
- Speak to TA and professor for the majority of the class. To identify weak points.

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14Oct

- Draft test plan
- Run simulation on LTspice to verify capacitor behavior.

15Oct

- Draft test plan (15 pages)

17Oct

- Review test plan with team
- Discuss solutions to sampling/data problem
- Revise SDD

20Oct

- Revise SDD based on feedback from TA

21Oct

- Revise SDD based on feedback from TA

24Oct

- Revise SRS

27Oct

- Sprint_v2 draft

31Oct

- Review parts list, produce alternatives if Digi key tax free status does not occur.

1Nov

- Sprint 2 presentation.

7Nov

- Order parts
- Convert some parts to tax free websites. Client requires tax free.

9Nov

- Verify parts ordered using correct product code and correct quantity.

14Nov

- Verify components values match expectation/ test parts individually.

16Nov to 19 Nov

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- Begin soldering components/ assemble electrical circuits.
- Verify electrical circuits function correctly.

21 Nov

- Receive more parts
- Discuss status with instructors
- Plan for work over thanksgiving break

22-25 Nov

- Test electrical components
- Solder components to boards
- Prepare lengths of wire for routing (approximately 20 in lengths initially)
- Revise SDD using feedback

26 Nov

- Draft final presentation

28 Nov

- Coordinate with team for final presentation
- Test components
- Order new mosfet (replace bad one)