

sdmay23-28: Digital Chip Fabrication

Week 1 Report

September 6 - September 30

Team MembersAaron Sledge — *Team contributor*Katherine Gisi — *Team Contributor Was point of contact for Client/Mentor Helped write assignments.*William Zogg — *Team Contributor*Tyler Green — *Team contributor*Fulai Zhu — *Team Contributor***Summary of Progress this Report**

This period has seen our team brainstorming chip design ideas, researching the platforms that will be used, and gaining knowledge from the previous SD team on a similar project and our mentor/client. Our areas of progress are:

- Determined team communication strategies
- Set up and met weekly with client/mentor
- Gained access to the Slack for Open-Source Silicon
- Defined primary users
- Narrowed down design idea for our digital chip fabrication, decided to do a Spike Neural Network (SNN) design

Pending Issues

Our issues thus far have been minimal. Issues that we are keeping our eye on but do not necessarily require an immediate solution include:

- Unfamiliarity with the required footprint of our design ideas and if that is feasible
- A weekly meeting that is only a half hour long

Plans for Upcoming Reporting Period

Our next period will look like familiarizing ourselves with the chip bring up design process so we can complete our design requirement and design planning assignment. The anticipated steps we will take are:

- Research and report on how our design logic and algorithm works
- Define design requirements
- Prepare Power Point for lightning talk
- o Create timeline
- o Define metrics and methods

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Aaron Sledge	Contributed to our team contract, weekly report, & user needs document. As well as coming up with a design idea for our chip	8	

	project.		
Katherine GisiTeam Contributor	8 hours	8	
William Zogg	Helped create team contract, user needs document, weekly report, lightning talk.	8	
Tyler Green	Offering design ideas for chip application, helping complete 491 class assignments (user needs, weekly report), setting up team Discord Server and OneNote for communication	8	
Fulai Zhu	Help work on team contract, weekly report and user needs document. Offer chip design and application ideas.	8	

Gitlab Activity SummaryNothing to report.
