

EE/CprE/SE 491 WEEKLY REPORT sdmay25-29

September 20, 2024 - September 26, 2024

Group number: 29

Project title: Implementation of the ABC using modern technology

Client &/Advisor: Professor Alexander Stoychev

Team Members/Role: Connor Hand - Client Interaction and Team Organization, William Mayer - Meeting Time Tracking and Note Taking, Peter Hurd / Noah Butler / Zachary Scurlock - Testing and Individual Component Design, Peter Hurd - Budget Handling

○ Weekly Summary

This week the team was tasked with reading through a book that we found and finding more resources on the ABC computer. We found a couple more resources and were able to get an online simulation of the computer working. We also all started reading the Burks book.

○ Past week accomplishments

- Connor Hand: Started reading the book, found another resource with a lot of images and some articles on the computer.
- Zach Scurlock: Started reading the book
- Peter Hurd: Started reading the book, setup a team GitHub with KiBot program to compile KiCad design files
- William Mayer: Read homework assignment pages - looked into Gaussian Algorithm
- Noah Butler: Started reading the book, looked into analyzing the simulator we found

○ Individual contributions

<u>NAME</u>	<u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Connor Hand	Read book, found source.	2	5
Zach Scurlock	Read book	2	4
Peter Hurd	Read book, setup GitHub	2	5
William Mayer	Read Book	2	4
Noah Butler	Read Book, Look into the simulator we found	2	5

○ **Comments and extended discussion**

Finding sources for the ABC computer is difficult. The book is going to be a good source of knowledge and some of the websites we have found have good diagrams. We plan on purchasing at least one physical copy of the Burks book. Next week we can start looking into individual components.

○ **Plans for the upcoming week** *(Please describe duties for the upcoming week for each member. What is(are) the task(s)?, Who will contribute to it? Be as concise as possible.)*

- Connor Hand: Finish reading book, research the adder-subtractor component and the carry drum/boost.
- Zach Scurlock: Finish reading the book, research components
- Peter Hurd: Finish reading the book, research components, create a preemptive BOM for breadboarding state
- William Mayer: Finish Book, look if Algorithm
- Noah Butler: Look further into the simulator, research components

○ **Summary of weekly advisor meeting** *(If applicable/optional)*

(Provide a concise summary on the contents and progress made during the advisor meeting.)

We dived into our sources during this advisor meeting. We determined that we should all start reading the Burks book and after that we can split up the components of the ABC computer for individual research and design.