COMPSCI Club (Computer Science) - Drafted January 4th 2025

Currently there is a massive gap in resources for students who are interested in computer science (a.k.a. COMPSCI). The robotics club focusses entirely on basic mechanical engineering. The club does not give a comprehensive dive into the nuances of individual programming languages, and only uses Python at a basic level. Beyond the robotics club there are no other provisions for any other form of programming, deterring many students from entry into the field. Furthermore, there is lackluster support for students to continue their journey into COMPSCI, with minimal support. As such many are forced to look for external resources, which are not as useful and may not provide all necessary information.

The COMPSCI club aims to solve this gap by creating an enviorenment which is not limited to specific aims. The COMPSCI club will allow students to learn more about COMPSCI with the help of more profficient students, and allow more advanced students to access a network of other students who can help debug code or create collabarative projects. The club will allow students an easy entry into the field and allow students to create more ambitious projects with networks of resources.

We may also consider inciting students to collabarate on specific projects, for instance building virtual machines (a.k.a. *VM*s), assembly compilers and interpreters, 3D rendering systems, building a Lisp, opperating system (*OS*) developement, or network programming. We may also include smaller projects which require less developement competency such as sudoku solvers or otrher simple projects. And we may also include project pools to incite students to create new project ideas. These ideas are contingent on student engagement and competency.

The *COMPSCI* club will only focus on Friday clubs period in the adult supervisors room. The *COMPSCI* club is not meant to be an alternative to the robotics club, rather an addition for students who want to broaden their interests. We may eventually consider moving into recesses and other time slots, however one of our main goals is to avoid interfeering with the robotics club.

The *COMPSCI* club will start out only allowing web developement through the React Javascript (a.k.a. *JS*) setup (*JS*, Hyper Text Markup Languages (a.k.a. *HTML*), and cascading style sheets (a.k.a. *CSS*)), or other forms of programming through programming websites. Our future prospects are to eventually allow the use of integrated developement enviorenments (a.k.a. *IDE*s) (Visual Studio Code, Visual Studio, IntelliJ, PyCharm, Webstorm, etc.), with major focus on Visual Studio Code, to allow students to access more powerful resources to continue programming into other languages (Java, Python, C, etc.). After including *IDE*s we may consider moving to allow single board computers (a.k.a. *SBC*s) (Arduino, etc.) and other more advanced tools, and will discuss any further course of action with tech.

Thank you for your time and consideration.

Signatories

Adult Supervisor: _____ Date: _____

Student Sponsor: _____ Date: _____ (Ruoku Lee)

Founder: _____ Date: _____ (Austin Blass)

Principal Sponsor: _____ Date: _____