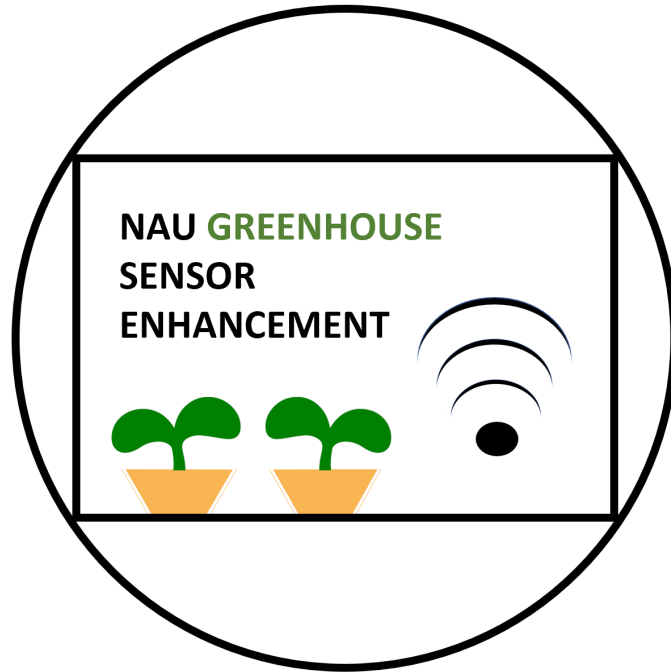


2021-2022 Capstone in Electrical Engineering: NAU Teaching Greenhouse



TEAM INVENTORY

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Introduction

This document outlines the skills and interests of each member of the Greenhouse team.

Skills

Table 1 shows each team member's self-assessment of relevant skills.

Table 1. Team member skills.

Scale: 0 = no skill, 1 = basic skill, 3 = intermediate skill, 5 = advanced skill

| Skill | Emilia Connelly | Rupeng Jia | Jiixin Liu | Alexia Risley |
|---|-----------------|------------|------------|---------------|
| Linux | 4 | 3 | 3 | 0 |
| Raspberry Pi | 4 | 0 | 1 | 0 |
| Arduino | 4 | 0 | 1 | 3 |
| MSP430 | 2 | 3 | 4 | 4 |
| Analog Circuits | 4 | 3 | 4 | 3 |
| Digital Circuits | 4 | 2 | 4 | 3 |
| Circuit Simulation | 5 | 3 | 4 | 2 |
| C | 3 | 4 | 5 | 4 |
| C++ | 3 | 0 | 1 | 4 |
| Python | 4 | 4 | 3 | 0 |
| Java/JavaScript | 2 | 3 | 3 | 0 |
| HTML | 1 | 2 | 1 | 0 |
| CSS | 0 | 0 | 0 | 0 |
| Soldering | 3 | 4 | 4 | 3 |
| PCB design | 2 | 3 | 3 | 5 |
| Bluetooth | 0 | 1 | 3 | 0 |
| 3D design | 2 | 0 | 0 | 4 |
| Fabrication | 1 | 4 | 4 | 4 |
| Documentation | 5 | 2 | 1 | 5 |
| Presentation skills | 4 | 3 | 3 | 4 |
| Hand drawing | 1 | 4 | 3 | 4 |
| Computerized drawing | 2 | 2 | 3 | 3 |
| Oral communication skills | 4 | 4 | 2 | 5 |
| Written communication skills (emails/Discord) | 5 | 3 | 3 | 5 |
| Writing skills (essays) | 5 | 2 | 1 | 5 |
| Creativity | 2 | 4 | 4 | 4 |
| Passion | 4 | 5 | 4 | 3 |
| Ability to collaborate | 3 | 5 | 4 | 4 |
| Empathy | 2 | 5 | 5 | 5 |
| Respect to others | 5 | 5 | 5 | 5 |
| Being alert to social cues | 2 | 4 | 2 | 4 |

| | | | | |
|-----------------------------|---|---|---|---|
| Work ethic | 4 | 4 | 4 | 3 |
| Critical thinking abilities | 4 | 4 | 3 | 4 |
| Ability to problem solve | 4 | 4 | 4 | 2 |
| Being punctual | 4 | 4 | 4 | 3 |

Interests

Alexia Risley has a plethora of interests outside of engineering and as well within engineering. Outside of engineering, she likes to draw, write poetry, go on hikes, and hang out with friends. Within engineering, she likes to code and play around with her Arduino.

Jiixin Liu (“Lex”) is interested in Math, physics, Microcontroller programming, ESP8266, HC-05, kinds of sensors, League of Legends, ALTERA, XILINX and Photoshop. (not good, just interested in)

Emilia Connelly is interested in all kinds of sensors and automation. She strongly believes in modularity and maintainability. She is in engineering primarily to build things with other people’s money.

Ruopeng is good at communicating and managing. Good communication is the prerequisite of an efficient group. He can be the hub for reducing conflicts and making the team more cohesive. He’ll also make the schedule for team meetings and activities. In addition, he is ultra enthusiastic about solving problems. He illustrates that there are no problems that can’t be solved, they are mainly because we haven’t found the right way to do so. He will assure the team out of trouble whenever it happens.