

Chien Hua (Nicholas) Lin

(541)788-8666 · linch@oregonstate.edu · 202 NW 13th ST APT4 Corvallis OR

Profile

Nicholas Lin is a senior international student from Tainan, Taiwan majoring in electrical engineering and minoring in photography at Oregon State University. Within 6 months of experience in rocketry science as the electronic team lead in the OSU USLI (University Student Launch Initiative) NASA Student Rocket Team. Nicholas is passionate about hardware, circuit design, rocketry science, and engineering project management.

Education

Oregon State University (Corvallis, OR)

2016-Present

- Bachelor's degree in Electrical and Computer Engineering
- Coursework: Calculus, Computer Programming, Signal and System, Digital Logic Design, Electronics circuit. Software Coding, Hardware circuit design

Projects

● 2020-2021 NASA Student Launch Competition

- Electronic Sub-Team Team Lead
- Design electronic parts for Payload system. Using Raspberry Pi 4B as microcontroller. System included the self-leveling system, transceiver system, GPS system and the parachute eject system.
- Payload PCB design
- Open CV photo stitching coding design

● PC Controlled Power Supply

- Self design adjustable power Supply, which able to supply voltages from 2-14V under load (up to 1.5A) while displaying the voltage and current to a local display. Power supply is programmable over a USB serial port.
- Two independent channels
- System will be disabled if more than 1A is drawn from the wall power or 1.5A from the output at anytime.

- **Persistence of Vision Display**
 - Co-designer using Arduino
 - Property of the visual system that combines individual visual cues into smooth and seamless images.
- **32x8 LED Audio Visualizer**
 - Co-designer using Arduino Input using a build in amplifier microphone which will record the noise from the environment, and display frequency from 20Hz to 20kHz on a 32x8 LED matrix.

Leadership/ Involvement ---

- **Trillium Family Services – (Corvallis, OR)** **2020 June- August**
 - Engage and help student with mental issue.
 - Host student water rocket/ space science camp, Student marathon 10K
 - Develop communication and leadership skills
- **Oregon Food Bank – (Corvallis, OR)** **2020 June- August**
 - Food delivery for lower income family.
 - Develop perspectives of culture diversity,
 - Compassion motivation, in order to give back to the society and community that needs helps
 - By facing people from different cultures, races, gender, who speaks different languages develop communication skills
- **National Association of Rocketry**
 - Member: EUROCC #733
 - Electrical engineering member
- **Oregon State USLI, NASA Student Rocket Team** **Sep 2020 - Present**
 - Electronic Sub-team Team Lead
 - Skilled Demonstrate: Problem Solving, Teamwork, Leadership and Communication
- **Military Service** **2016**
 - Service Country: Taiwan
 - Rank: Army Private First Class
- **Stark View Photo Studio** **Since 2020 August**
 - Creator/ Founder
 - Focuses on portrait style photography, cultural diversity, and humanity.
 - [Website Page](#)

Skills

- **Specialization:** Hardware/Netlist layout /PCB design, Programing and project design logic controller (Raspberry Pi, Tenssy).
- **Programming Language:** C/C++, Python, MATHLAB
- **Software:** EasyEDA, Kidcad, Microsoft Office, Lightroom Adobe,
- **Languages:** English, Chinese (Mandarin), Taiwanese
- **Soft skills:** Problem solving, leadership, critical thinking, Teamwork, cross-culture/language communication

Work History

- **Java Stop (Corvallis, OR):** 2018 – Present
 - Barista
 - Long term working experience, 3 years
 - Skills demonstrated: Passion for work, Teamwork, communication