

# Raymond Lin

469-279-0215 • [lin.raymond0225@gmail.com](mailto:lin.raymond0225@gmail.com)

Website: <https://raymondlin22.github.io/> • LinkedIn: <https://www.linkedin.com/in/raymond-lin-80a03218b/>

## EDUCATION

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### Texas A&M University

*Bachelor of Science in Electrical Engineering / Minor in Mathematics*

**GPA: 3.341/4**

**College Station, Texas**

*Expected Graduation Date - May 2022*

## SKILLS

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**Software:** C++, C, Python, JavaScript, HTML, CSS, Verilog (VHDL), ARMv8

**IDES:** Visual Studio Code, Vivado, Multisim, LT Spice XVII, MatLab, CADENCE Virtuoso, Altium

**Hardware:** Multimeter, Oscilloscope, Circuit/Breadboard Design and Testing, Raspberry Pi, FPGA board

## EXPERIENCE

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### iD Tech Instructor

*Virtual Instructor*

**Dallas, Texas**

*June 2021 – August 2021*

- Taught game design and application development in C++, JavaScript, and Minecraft.
- Managed virtual classroom to promote student interest in Computer Science, coding, and game development.
- Developed different and unique lessons catered to student's needs.

### Engineering/Physics Lab Peer Teacher

*Peer Teacher - ENGR 216/217*

**College Station, Texas**

*August 2019 – Present*

- Guided students to apply their knowledge of physics in a laboratory setting using Linux based systems.
- Graded biweekly lab reports, monitored student performance, and facilitated office hours for additional help.

## PROJECTS

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### Senior Capstone – <https://github.com/raymondlin22/ECEN-403>

*Nutrient Monitoring and Regulation System*

**College Station, Texas**

*September 2021 – Present*

- Working on an automated nutrient dispensing system for aquaponic farm, designed microcontroller PCB.
- Utilized Altium to create schematic and PCB layout including PIC32, ESP32, and voltage buck converter.
- Learned importance of planning, testing, and time management skills.

### PartyVizion - <https://devpost.com/software/partyvizion>

*HowdyHack Grand Winner – 3<sup>rd</sup> Place*

**College Station, Texas**

*September 2021 – September 2021*

- Helped create a camera system that plays specific music depending on the number of people in the room.
- Created servo motor algorithm that would adjust camera movements based on number of people present (motorObject.py).
- Realized the importance of planning ahead to integrate software and hardware successfully.

### ARMv8 Single-Cycle Processor

*ECEN 350 – Computer Architecture*

**College Station, Texas**

*September 2020 – December 2020*

- Designed single-cycle processor using Verilog and Assembly Language.
- Implemented fully functioning Datapath, ALU, Sign Extender, Instruction Memory, Register File, and Next PC logic.

## HONORS AND ACTIVITIES

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### Brothers in Engineering, Science, and Technology (BEST)

*September 2019 – Present*

### HowdyHack 2021 – PartyVizion (3<sup>rd</sup> Place)

*September 2021*

### TAMUhack 2020 - Accident Info (Grand Winner)

*February 2020*

### Texas A&M University Robotics Team and Leadership Experience (T.U.R.T.L.E)

*January 2019 – January 2021*

### Texas A&M Symphonic Winds Band

*August 2018 – May 2019*