**Thomas Pham**

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**Electrical Engineer**

* 3.05 GPA
* Current BSEE student with a passion to learn.
* Possess the analytical abilities and technical skills necessary for engineering innovative designs and applications.
* Solid understanding of electrical engineering theory, industry-standard circuit design, and testing tools.

**Education**

university of new hampshire, Durham, NH

Expected graduation: May 2020

* ***Relevant Courses:*** Programming in C, Electronic Design II, Linear Systems and Signals I & II, Junior Laboratory 1 & II, Electromagnetic Waves & Fields, VLSI (Very large-scale integration), Application of Integrated Circuits, Digital Signal Processing

**Experience**

**UNIVERSITY OF NEW HAMPSHIRE, Durham, NH (2016-Present)**

***Lab Work:***

* Digital Systems:
  + Designed circuit diagrams and wiring diagrams.
  + Prepared extensive lab reports to reduce error.
  + Constructed circuits using PB-505 analog and digital breadboards.
  + Tested circuits involving various chips (7400, 7410, 7404, etc..).
* Electronic Design I & II:
  + Prepared various circuits using Op-Amps, Transistors, diodes, and semiconductors.
  + Tested circuits for error using oscilloscope and digital multimeter.
* Junior Laboratory I & II:
  + Designed, constructed, and tested the following types of circuits:
    - Two-Port Network
    - Op-Amp
    - Single-stage BJT amplifier & Dual stage BJT differential amplifier
    - Differential MOSFET amplifier
    - CMOS digital logic design
    - Transmission lines
    - Active low-pass filer design
    - Transformer and DC motor analysis
  + Final lab projected consisted of designing, constructing, and testing a functioning audio amplifier using an input JFET stage, a dual transistor stage, and an AB output stage.

**UNH Students for the Exploration and Development of Space, Durham, NH (2019-Present)**

* Worked on the Avionics and Payload portion of the construction of a Hybrid engine rocket.
  + Focused over the summer on debugging and implementing code on an Arduino in order to control the flow regulator of the hybrid rocket
  + Reviewed schematics of the Arduino to construct wiring diagrams for the ignition system of the rocket
  + Attempted to implement code into the Arduino to provide a wireless ignition system over 150 feet away
  + Working on obtaining live feed information while the rocket is in flight such as altitude, degrees from horizontal, speed, and amount of thrust used.

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**Leadership and Activities**

* **Activities:** IEEE Student Member (2016-Present), UNH SEDS (2019-Present)
* **Leadership:** Kappa Sigma Fraternity (2016-Present)
  + Cooperate with other organizations for fundraising purposes.
  + Prepare philanthropy events during the semester to raise money for a good cause (relay for life).

**Technology Summary/skills**

* **Computer/Coding:** Microsoft Office (Word, PowerPoint, Excel), C, Java, Assembly Language, Matlab
* **Language:** Bilingual in Vietnamese and English