Theo Erikson

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Education

2019-Present Undergraduate, Mechanical Engineering, University of Maine. **Maine Top Scholar**; Dean's List all semesters; Honors societies: **Pi Tau Sigma**, Alpha Lambda Delta, Golden Key; **GPA: 3.843**

Experience

2021-Present | **Junior Technical Manager**, VEMI Lab

- Lab Management: Oversaw over $4,000,000 worth equipment, tools, and resources.
  - Assisted in the construction of the first 360° immersive autonomous vehicle simulator.
  - Redesigned and implemented new organization systems for files and hardware.
  - Acts as facilities management's contact point for 10,000ft^2 building.
- Undergraduate Mentorship: Responsible for the training and development of multiple undergraduates.
- Tour Guide: Conducts tours with potential students, collaborators, and donors.

2019-Present | **Hardware Analyst**, VEMI Lab

- Hardware Developer: Designed and constructed apparatuses for research and infrastructure applications.
  - Created data collection apparatus capable of collecting images at over 32,000 incident angles.[2]
  - Assembled a hydroponic system to aid in the development of space-based hydroponics.
- Logistics: Complied supply lists of materials related to computers, microcontrollers, and construction.
  - Responsible for 20+ computer purchases and assemblies.
  - Primary point of contact for RMAs, product support, purchasing.
  - $500,000 budget for purchasing.
- 3D Printing Technician: Responsible for all 3D printing operation and maintenance.
- Human Subject Research: Designed and proctored experiments focusing on human computer interaction. [1]

2017-2019 | **Intern**, VEMI Lab

- Installed and maintained lab hardware and software infrastructure.
  - Assembled a largescale 6-monitor array to display promotional materials.
  - Networked 10,000ft^2 building using Ubiquiti Access Points and direct ethernet connections.

Publications

- [1] Erikson, T., Blackwood E., Nygaard, A., & Evangelista, A. (2020). Ignorance is bliss: A study into the perception of cleanliness of touchscreen devices. *VEMI Student Publications, 1*. http://dx.doi.org/10.13140/RG.2.2.21389.28643
- [2] Erikson, T., Biswas, O., & Perry, R. (2022). Development of the triaxial apparatus for the rotation of discrete and independent samples. *VEMI Student Publications, 3.* doi: 10.13140/RG.2.2.25560.78085

Professional Development

2019(Oct.): Pen is Mightier Conference Speaker -

2019(Jan.): VEMI Rapid Research Week Presenter

2021(Mar.): University of Maine Student Symposium Presenter

2021(Aug.): University of Maine Research Learning Experience Speaker

2022(May.): VEMI Rapid Research Week Presenter

Skills

SolidWorks | Abaqus | Maya | MATLAB | Mathcad | SMath | Cura | Makerbot Print | Python | Arduino

Tiger Software Suite | Mozilla Hubs | Unity 3D

Project Management | Collaboration | Technical Writing