

HE

HARRISON ERNST

B. S. ELECTRICAL ENGINEERING & B. A. GERMAN
WWW.ERNST.SITE

SKILLS

- Teamwork
- Project Management
- Public Speaking

Languages:

- English and German

Computer/Electrical:

- Soldering
- CMOS & Transistor Design
- Wiring (incl. Harnesses)
- Circuit & Logic Design
- Battery System Design
- Microsoft Office Suite (Including Visio & Project)
- Matlab, Arduino, CCS
- PSpice, Virtuoso, LabVIEW
- Python, C/C++, Linux
- Solidworks
- Software Testing
- Test Procedure Creation

PROJECTS

- Three House Synchronized Lights to Music Display
- Multi-use Solar Generator and Battery Backup System Design and Fabrication
- Senior Design Project: The Automated Baby Bidet
- See **Engineering Portfolio** for many more

EDUCATION

LEHIGH UNIVERSITY • BETHLEHEM, PA • 2018 - 2022

B.S. Electrical Engineering

B.A. German

PFORZHEIM UNIVERSITY • PFORZHEIM, GERMANY • 2019

Six Week, Nine Credit Exchange Program

Courses: Production and Supply Chain Management, Engineering in Manufacturing, Advanced German Language and Culture

THE GERMAN AMERICAN SCHOOL • NEW YORK, NY • 2006 - 2017

Graduated in 2016, continued to complete optional AP in 2017

Study of the German Language, Economy, Culture, and Geography

EXPERIENCE

ELEMENT INTEGRATION & TEST ENGINEER • LOCKHEED MARTIN • 2022 - PRESENT

Software Laboratory & Checkout, Qualification Testing & Test Procedure Work for Radar Systems

ENGINEER • SELF EMPLOYED • 2014 - 2022

General repairs and projects ranging from fixing and upgrading computers to installing new circuits and electrical fixtures, including specialized projects

WAITER/BUSSER • PROST GRILL & GARTEN • 2019 - 2022

Full time over the summer of 2019, part time after the school year began

PROJECT ENGINEERING INTERN (ELECTRICAL) • TRIUMPH GROUP • SUMMER 2021

Oversaw and contributed to electrical engineering projects: documented electrical designs, met, and worked directly with suppliers and customers. Main project: engine control unit for the CH-47 Chinook. BOM, EMI, wiring harness, circuit design work, et al. See **Engineering Portfolio** for Reference letter.

LEADERSHIP & ACCOMPLISHMENTS

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| • The Coaches Award (Presented to student-athletes who made a significant contribution to the team's well-being in terms of attitude, improvement or special leadership) | 2022 |
| • Dean's List & Patriot League Academic Honor Roll | 2021 |
| • Joseph C. Gabuzda Memorial Award (Awarded by the Lehigh University ECE Department for showing outstanding promise, both intellectually and in leadership qualities) | 2021 |
| • 4.0 GPA Fall 2020 (Dean's List & Patriot League Academic Honor Roll) | 2020 |
| • Participant in leadership training classes and workshops under Lehigh Athletics Department | 2020 - 2022 |
| • Lehigh Varsity Track and Field Athlete | 2018 - 2022 |



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www.ernst.site
(Engineering Portfolio)



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