


RAFAEL SCHLEDER

COMPUTER ENGINEER
Undergrad

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SKILLS

Solidworks CAD

C++

Python

Control Systems

Advanced Manufacturing

git version control

Unix systems

Command Line

Arduino

Data Analysis

Machine Learning

AWARDS

DEAN'S LIST

University of Michigan, 2018

UNIVERSITY HONORS

University of Michigan, 2018

MICHIGAN RESEARCH AND DISCOVERY SCHOLAR

University of Michigan, 2018

CUM LAUDE

Cum Laude Society, 2017

RESUME OBJECTIVE

Studying Computer Engineering, interested in Applied Math, Data Science, Interdisciplinary Research. Background in Control Systems, applied to Advanced Manufacturing and Autonomous Vehicles. Currently working on Machine Learning with Health and Social Determinants Data. Plan to work in Entrepreneurship and Innovation with Early Stage Growth Companies.

EXPERIENCE

UNDERGRADUATE RESEARCHER

University of Michigan, Ann Arbor, MI / October 2018 - Present

- Implemented advanced manufacturing in UM Geology Department Lab for diamond and light element experiments
- Worked with lab equipment, measurement devices, and CNC, 3D printing machinery for production of deep earth replication assembly

RESEARCH SCHOLAR

Air Force Research Laboratory, Albuquerque, NM / May 2018 – August 2018

- Collaborative Autonomous Production Lab with University of New Mexico, under Space Vehicle Directorate, clearance required
- Worked on advanced manufacturing control system and hybrid manufacturing implementation for satellite production

TECHNICAL INTERN

Sandia National Laboratories, Albuquerque, NM / May 2017 – November 2017

- Department of Energy Lab, Electromagnetic Theory Group, interned under group manager, worked as utility for group projects
- Developed internal website and database. Programmed in C++, Python, Matlab, on electromagnetic simulations and data processing. Worked on applied electromagnetic experiments and material tests

EDUCATION

B.S.E. COMPUTER ENGINEERING

University of Michigan, 2022 GPA: 3.7/4.0

- Michigan Research Community (MRADS), Hyperloop Controls Team, Finer Things Club, Naples Museum of Archeology Exhibit CAD design,
- Relevant Coursework – Engr 100 Autonomous Vehicles, EECS 280, EECS 203, EECS 201, Math 214

H.S. DIPLOMA

Albuquerque Academy, 2018 GPA: 4.35/4.0

- Activities – Speech and Debate Leadership Team, Policy Debate Team Captain, Super Computing Challenge, Ultimate Frisbee Team Captain, Southwest Women's Law Center/ACLU NM volunteer
- Relevant Coursework – Logic and Probability, Servo driven Robotic Arm Mentorship, AP Computer Science A, Introduction to Computer Science