Noah Driker

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Work Experience

Test Engineering Intern September 2020 - Present
Positioning Universal San Diego, CA

- Collected vehicle CAN bus data for processing and decoding
- Wrote web-scrapers for retrieval of pertinent information on sites
- Wrote UI tool to expedite data collection and organization

SW/Mechanical Engineer June 2019 - December 2019
Craitor San Diego, CA

- Helped design algorithm for raw point cloud data compression
- Used Bézier and B-spline curves to reconstruct models
- Designed rugged structure for military-grade 3D Printer using SolidWorks
- Used SolidWorks for Pre-fabrication Simulation and Testing

Private Tutor November 2016 - Present
Self Employed San Diego, CA

- Math subjects including Algebra, Geometry, Linear Algebra, Differential Equations
- Programming subjects including Web Design and basic Python

Projects

Simulated File System using Emulated Hard Disk | ***Python*** Winter 2021
University of California, Irvine

- Goal: Implement File System using an Emulated Disk
- Result: Implemented Unix-like file system structures and utilized low-level disk operations to create a functioning file system

NLP Text Parsing and Duplicate Detection for Search Engine Page Indexing | ***Python*** Winter 2021
University of California, Irvine

- Goal: Create a search engine to retrieve information from web pages or documents
- Result: Wrote a search engine from the ground up that is capable of handling tens of thousands of documents or Web pages, under harsh operational constraints and having a query response time under 300ms.

Design of Functioning MIPS Processor| ***SystemVerilog*** Winter 2020
University of California, Irvine

- Goal: Design a MIPS Processor
- Result: Built a pipelined MIPS processor from scratch in SystemVerilog and tested DUT with a custom testbench

Subject Fluency

Math: Differential Geometry, Statistics, and Topics in Abstract Mathematics
Programming: C++, Python (NumPy, SciPy, Matplotlib, PyTorch, OpenCV), MATLAB, RISC-V Assembly, SystemVerilog, MySQL
Physics: Fluid Mechanics, Optics, Finite Element Analysis
Software Tools: Microsoft Office, Tableau, LaTex

EDUCATION

Bachelor of Science | ***CS / Applied Physics*** September 2017 - Present

University of California, Irvine Irvine, CA

- Pursuing a degree in Applied Physics
- Mechanics, Electromagnetics, Fluid Mechanics, Optics, Topics in Modern Physics
- Vector Calculus, Linear Algebra, Differential Geometry, Probability and Stochastic Processes
- Data Structures, Principles of Operating Systems, Digital Logic Design, Org. of Digital Computers