CONNOR HUMISTON

ELECTRICAL & COMPUTER ENGINEER

INFO

PHONE
720-626-8913

EMAIL
connor.humiston@colorado.edu

LINKS

ConnorHumiston.com

Github.com/Connorado9

LinkedIn/Connor-Humiston

SKILLS

FPGA/VLSI Design & Analysis

RTL & Digital Logic Design

Quartus Prime & ModelSim

CPU Architecture

Circuit Design & Assembly

SPICE Circuit Simulation

Data Analysis & Manipulation

Embedded Systems

Altium & PCB Fabrication

Algorithms & Data Structures

Problem Solving/Debugging

Communication & Leadership

LANGUAGES

Python

C & C++

Verilog HDL

Assembly

Java

MATLAB

Tcl

Perl

Spanish

EDUCATION

B.S. in Electrical & Computer Engineering — University of Colorado Boulder
Aug 2018 — Dec 2021

Minors: Computer Science, Spanish, Business, and TAM (Technology, Arts, and Media)

- GPA 3.92; Dean's List, Boettcher Presidential Scholar, Sewall Esteemed Scholar, Double Engineering Scholar
- Organizations: Global Engineering, IEEE, CU Hyperloop, Rotaract, EWB
- Fraternities: Tau Beta Pi, Alpha Phi Omega, Theta Tau (Vice President)
- Classwork: Circuits, Analog & Digital Design, Digital Logic, Data Structures, Computer Architecture, Signals & Systems, Microelectronics, FPGAs, RF

EXPERIENCE

National Institute for Standards & Technology (NIST) — Intern
Mar 2020 — Present

Drafted and assembled circuits to measure noise for precision applications and produced Python Uncertainty Propagation software

Amazon Web Services (AWS); Contracted — Hardware Engineer
August 2020 — May 2021

Designed and fabricated a self-identifying, wireless energy meter that offered a scalable, cost-effective solution for AWS's existing outdated deployments

PROJECTS

Mini-CPU, Reaction Timer — Verilog
Implemented digital circuits like clock dividers, comparators, counters, multiplexers, adders, encoders, LFSRs & PLLs in Verilog before verifying results in ModelSim

VGA Video Controller — Verilog

Uncertainty Propagation Software — Python
Provided a solution to solving equations containing extensive 2D variables while propagating their measurement error with Python's Pandas data analysis library

Tic Tac Toe AI — Python

Zombie Invasion Simulator — C++
Utilized fundamental data structures like graphs, trees & linked lists with Depth- and Breadth-First Searches, Dijkstra's algorithm, and sortation to simulate an outbreak

Word Analysis, Transmission Network & Database — C++

Temperature-Based Embedded System — C
Developed LETIMER, CMU, GPIO, I2C, UART, BLE and scheduler drivers to collect temperature sensor readings and send them via Bluetooth to a mobile device

Remote-Controlled Robot — Custom Hardware
Check out ConnorHumiston.com for descriptions of these projects and much more!