

CONNOR COALE

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EDUCATION

Thayer School of Engineering <i>Bachelor of Engineering with focus in Computer Engineering</i>	March 2023
Dartmouth College , Hanover, NH <i>Bachelor of Arts in Engineering Sciences Modified with Computer Science</i>	June 2022 GPA: 3.75/4.00

TECHNICAL SKILLS

C, Python, VHDL, Verilog, Chisel, Bash, Git, LaTeX, MATLAB, Microsoft Office tools, SolidWorks

ENGINEERING AND SOFTWARE EXPERIENCE

SiFive , Remote (San Mateo, CA) <i>Platform Engineering Intern</i> <ul style="list-style-type: none">Performed timing analysis for various RISC-V cores to improve frequency on internal testing platform to reduce SPEC2k6 runtimes by 17-50%Implemented configurable modules in Chisel for validation platform to allow customizable testing/verification	June 2022 – Sept 2022
Thayer School of Engineering , Hanover, NH <i>Teaching Assistant for Digital Electronics</i> <ul style="list-style-type: none">Ran lab sections in to teach students to use and program Basys3 boards using VHDLMentored three groups as they developed their independent final projects	June 2021 – August 2021
Kadant Black Clawson , Lebanon, OH <i>Manufacturing Engineering Intern</i> <ul style="list-style-type: none">Tracked and documented repair manufacturing process for multi-ton pulping rotorsPresented solutions for improving efficiency of repair process, cutting billable time by 15-30%	March 2021 – June 2021
Thayer School of Engineering , Hanover, NH <i>Teaching Assistant for Discrete and Probabilistic Systems</i> <ul style="list-style-type: none">Hosted help sessions two times a week for 3-10 students to assist with debugging MATLAB codeSolved problem sets and generated solution keys using LaTeX formatting	September 2020 – November 2020

ENGINEERING AND SOFTWARE PROJECTS

<u>RISC-V CPU</u> in Logisim , <i>Developer</i> <ul style="list-style-type: none">Designed single stage RV32I processor with 16MB of data memory and 4KB of instruction memory capable of running C programs compiled using RISC-V GCCBuilt in Logisim circuit simulation software	August 2022
Tiny Search Engine , <i>Developer</i> <ul style="list-style-type: none">Developed search engine application in C using various data structures to store contentsComprised of depth-restricted page crawler, indexer, and querier components for speedy retrieval of data	July 2021
“Simon” Memory Game , <i>Co-creator</i> <ul style="list-style-type: none">Developed memory game on a Basys3 FPGA development board using VHDLGenerated random sequence using time-seeded linear feedback shift register and stored in RAM for use during game along with frequencies and output for associated tone for each color according to the original game design	July 2020 – August 2020

LEADERSHIP EXPERIENCE

Dartmouth Emerging Engineers , <i>Lead TA</i> , Hanover, NH <ul style="list-style-type: none">Host group tutoring/study sessions for engineering prerequisite classes for underclassmenAdvise younger students who are still exploring Thayer on courses, schedules, professors, and anything for which upperclassmen engineers may be able to give adviceCoordinate biweekly meetings with faculty advisors and TAs to recap weekly sessions	December 2020 – Present
Men’s Ultimate Frisbee , <i>Captain</i> , Hanover, NH <ul style="list-style-type: none">Organized practice schedules and led team on the fieldPlanned logistics for travelling to and from monthly weekend competitions as far as California and TexasActed as intermediary between players to ensure good relationships are maintained and to achieve the best possible team performance	May 2021 – June 2022
Robots by the C , <i>Captain</i> , Manchester Essex Regional HS <ul style="list-style-type: none">Kickstarted use of SolidWorks on high school robotics teamQualified to compete in World Championship (2017) in St. Louis	December 2013 – June 2018

INTERESTS

Slavic Studies, Film, Frisbee, Skateboarding