

Connor Nicholls

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EDUCATION

Texas A&M University, College Station, Texas
Bachelor of Science in Computer Science
GPR: 3.865

August 2020 - May 2024

EXPERIENCE

Contech Control Services, Houston, TX
Associate Control System Engineer

July 2024 - Present

- Developed logic for Triconex Safety Instrumented Systems for various clients
- Devised scripts solutions to optimize workflow in both Typescript and Python
- Contributed to the creation of the Contech Toolbox, a resource for company-wide scripts and utilities

Texas A&M Department of Computer Science, College Station, TX

August 2023 - Present

Undergraduate Researcher under Dr. Roger Pearce, within the University Research Scholars program

- Developed algorithmic optimizations for base-level data structures in C++ through new design methodologies and specific virtual memory mappings
- Paper accessible at "[Investigation of Virtual Memory Aware Data Structures](#)".

Fujitsu Network Communications, Dallas, TX

June 2023 - August 2023

Software Development Intern, LabOps R&D

- Developed autonomous movement systems for STM32 series microcontrollers in Micropython
- Designed and began implementation of plans for an autonomous vehicle navigating in telecom networking stations
- Overhauled previously existing patent application for rigid attachment mechanism and submitted for approval

Texas A&M Autonomous Robotics Lab, College Station, TX

August 2022 - May 2023

Undergraduate Research Assistant under Dr. Xingyong Song

- Developed Matlab portable application for model of soil-digging mechanisms
- Advised capstone project on solutions to issues within autonomous robotics platforms

RELEVANT ACTIVITIES

TAMU Robomasters - Aimbots

September 2020 - August 2023

Embedded Systems Lead (August 2022 - August 2023) / Member

- Led embedded systems team from August 2022 - September 2023
 - Spearheaded implementation of software features for 9 robots
 - Collaborated with other hardware and software teams to compete in the Robomasters North America Competition
- Developed embedded system software and advanced control routines, including resource-managed barrel rotation, autonomous patrol maneuvering, and variable drivetrain control.

SKILLS

Advanced knowledge of C++, Java, Python, Typescript, Micropython, CUDA, Spring Boot, MySQL, Git, OpenGL, CMake, Tristation, Microsoft Suite, Linux & Windows Environments