LIAM GOSS

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EDUCATION

California State University, Fresno - Bachelor of Science, Computer Engineering   **Fall 2020 - Present**
- **Minors:** Applied Mathematics, Cybersecurity
- **GPA:** 3.87
- **Expected Graduation:** June 2024

ACADEMIC EXPERIENCE

Institute of Electrical and Electronics Engineers, Eta Kappa Nu   **May 2023 - Present**
- Vice President for CSU, Fresno's IEEE HKN chapter and will serve as President for my final semester.

Smittcamp Family Honors College Presidential Scholarship   **2020 - Present**
- Recipient of the Presidential Honors full-ride scholarship and a member of the Smittcamp Family Honors College through California State University, Fresno.

Undergraduate Research Assistant | CSU, Fresno   **Nov 2022 - Present**

In-Vehicle Network Security Research with Dr. Shahab Tayeb   Arduino | CAN Bus | Embedded Systems | Python
- Received an Undergraduate Research Grant administered by the Division of Research & Graduate Studies - Sponsored Programs in collaboration with the Office of the Provost.
- Identified and mitigated in-vehicle security vulnerabilities through CAN-bus network traffic analysis.

Related Coursework
- Linear Algebra, Digital Signal Processing, Microprocessor Architecture and Programming, Cybersecurity, Advanced Digital Logic Design, Algorithms, Switching Theory and Logic Design, Operating Systems, Embedded Systems, Cryptography, Advanced Computer Architecture, Computer Networks

WORK EXPERIENCE

Test Automation Engineering Intern | NASA Jet Propulsion Laboratory   **Jun 2023 - Aug 2023**

Mission Control Systems Test, Integration and Deployment Team   Jenkins | TestRail | Git | Python | Bash
- Summer internship for NASA JPL - Mission Control Systems Test, Integration and Deployment Team. Automated subassembly tests for the Deep Space Network Telemetry, Tracking, and Commanding software.
- Utlizied Continous Integration and Deployment (CI/CD) and other automation frameworks such as Jenkins, TestRail, JAMA, and Jira to reduce engineer workload when performing regression testing.
- Additional solutions used include Python, REST APIs, webhooks, pipelines, Docker, and Confluence.

Freelance Programmer | Upwork   **Dec 2020 - Jun 2023**

Remote work for various independent contrators   Python | Selenium | Arduino | C++ | Solidity | NodeJS | Microcontrollers
- Worked on various contracts ranging from remote task automation to emebedded system developement for near realtime sensor communication.
- Remote tech support for senior citizens on Apple devices.
- Created Decentralized Apps, smart contracts, and automated trading bots for Web3 applications using Solidity and NodeJS.

TECHNICAL SKILLS

Programming Languages| Python, C++, ARM/MIPS ASM, Verilog, Solidity, Javascript, Bash, Groovy
Hardware Tools| DE1/2 FPGAs, NewAE ChipWhisper & ChipSHOUTER, Arduino, Raspberry Pi, JTAGulator
Testing/Deployment| Jenkins, TestRail, Jira, JAMA, PyTest, CI/CD
Developer Tools| Docker, Git, npm, Vim, Confluence, VS Code