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**William Luke**  
<https://silverknoll.net>

## EDUCATION

**Texas A&M University**, College Station, TX  
Bachelor of Science in Computer Engineering  
Minor in Russian Language

December 2021  
GPA: 3.823 / 4.00

## Relevant Coursework

- Computer Systems: computer programming focussing on operating system APIs, file systems, network sockets, concurrency, and inter-process communication.
- Microcomputer Systems: Microcomputers as components of systems; VLSI processor and coprocessor architectures, addressing and instruction sets; I/O interfaces and supervisory control; VLSI architectures for signal processing; integrating special purpose processors into a system.
- Computer Architecture: register transfer languages to describe computer operation, CPU organisation, microprogramming, I/O, and memory system architecture.
- Other coursework: Data Structures & Algorithms; Calculus I, II, III; Differential Equations; Linear Algebra; Discrete Mathematics

## EXPERIENCE

### College of Engineering IT

**Texas A&M University**

*Linux System Administrator (Student)*

July 2019 – present

- Configuration management of Linux-based servers and workstations in research groups and student laboratories.
- Supporting researchers with HPC clusters using Slurm for scheduling and Singularity for container support.
- Contributions to development of unified installer for multiple Linux distributions.
- Managing user account authentication and permissions through Active Directory in Linux environment.
- Developing documentation for end-users about IT policies and software usage.

*Student Technician*

May 2019 – July 2019

- Perform hardware and software diagnostics and troubleshooting on Windows and Mac computers.
- Assist with networking configurations, esp. with authentication, VPNs, DHCP reservations, and remote access.
- Perform operating system imaging, Active Directory domain configuration, and account setup on new computers.

### Arch Linux ARM

**Open-Source Project**

*Platform Developer*

December 2019 – present

- Bootstrap the distribution on the previously unsupported Pinebook Pro.
- Create reproducible builds of the root filesystem using Docker and shell scripts.

## SKILLS

**Languages:** English (native), Russian (conversational)

**Programming:** C/C++, Go (proficient); Rust, Bash, Python (some experience)

**Web Technologies:** HTML, CSS, Jekyll

**Linux Binary Packaging:** Arch Linux (PKGBUILD), Void Linux (xbps-src templates)

**Other Software:** Git, DNS, Docker, Singularity, Distcc

## ACTIVITIES

- Engineering Honours, Texas A&M University (2017 – present)
- Residence Hall Community Council, Vice-President (August 2018 – May 2019)
- Tiger Rock Martial Arts International Taekwondo (June 2007 – present)