

# Gerhard van Andel

Fort Collins, CO – USA

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## Education

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### Colorado State University

*Bachelors of Science: Applied Computing Technology* **GPA: 3.35,**  
*Minor in Business Administration*

**Fort Collins**

*Fall 2014 - Spring 2017*

### Colorado Mountain College

*Associate of Science,*

**Breckenridge**

*Fall 2011 - Fall 2014*

## Technical Proficiencies

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**Languages:** c, c++, java, python, go, html5, css, javascript, php

**Scripting:** sh, mksh, bash, perl

**Networking:** 802.1AB, 802.1AD, 802.1D, 802.11x

**Documentaion:** Confluence, Lucidchart, Visio, Latex

**Databases:** MariaDB, RRD

**Interests:** Linux / Open Source Technology, Kernel Hacking, Computer Security, Suckless Development

## Projects

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### SBAR

C

A simple dwm statusbar updater written in C forked from the suckless dwmstatus.

<https://github.com/AsynchronousGillz/SBAR>

*December, 2015 - Present*

### ANT Farm

*Raspberry Pi, Python, Bash, PHP, NGINX*

A distributed mesh to generator and analyze network traffic for wireless load balancing system.

**Network monitoring**

*January, 2016 - present*

## Experience

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### Colorado State University: Computer Science Department

*Undergraduate Research Assistant*

**Fort Collins, CO**

*October 2016 - present*

Funded through the National Science Foundation Research Experiences for Undergraduates program (NSF REU).

**Goal** Design and compare fault tolerance schemes for stateless message processing and compare performance with Apache Storm message processing guarantee.

**Process** Configure and install Apache Storm cluster on department machine.

**Testing** Testing fault tolerance message processing schemes using Apache Storm cluster as a benchmark.

### Colorado State University

*Network Operation Assistant*

**Fort Collins, CO**

*August 2014 - present*

Assisted in the monitoring and maintenance across an enterprise network.

**Linux** Manage installations of Arch, Debian, CentOS, and FreeBSD.

**Network Documentation** Create and design network maps of wired and wireless infrastructure.

**Equipment** Installation and support of access points, switches, routers, and UPS.

**Cabling and Infrastructure** Assist with telecom management and infrastructure across a major university.

**Solution Design** Prototype and design low cost network monitoring device used to solve problems.

### Mountain Multi-Vision & Sound

*Automation/Networking Tech*

**Breckenridge, CO**

*June 2010 - August 2014*

Integration of commercial control systems and home automation systems to allow seamless control of all aspects of technology.

**Scripting** Generated different configuration files needed for the proper execution.

**System Design** Crestron, Lutron, and Elan Home Systems installation, integration, and design.

**Fault Tolerance** Designed a system that will continue operatating properly in event of failure.

**Racks and Enclosures** Designed, built, and installed in commercial and home environments.

**Custom Device Drivers** Custom integration of drivers and configuration in order to meet project goals.