Clayton Auld

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Summary

Engineer III with GCI, focusing on network forecasting and growth across the GCI backhaul network.

Current projects include implementation of Linux server backend infrastructure to support the capacity forecasting team's role in projecting future network growth. I also spearheaded the software and systems documentation effort to standardize the software tools and requirements within the team.

University of Alaska Fairbanks graduate with a BS in Electrical Engineering with considerable foundation in firmware and embedded systems design.

Experience

Engineer III, Capacity Forecasting & COGS
GCI Communication Corp.
Oct 2022 - Present (6 months)
• Spearheaded the documentation of software systems and software standards for the forecasting team.
• Led the implementation of Linux server infrastructure to fill the team's software development and data analysis needs.
• Collaborated across departments to investigate and monitor telecom system power, HVAC, and battery plant load and capacity for use in forecasting future growth.
• Collaborated with the team to forecast network capacity demand and growth across GCI's TERRA microwave network in western Alaska.

Radio Frequency Engineer II
GCI Communication Corp.
Jul 2022 - Oct 2022 (4 months)
• Focused on microwave point-to-point radio systems.
• Lead RF engineering & design on yearly upgrades to GCI’s TERRA microwave network throughout western Alaska.
• Act as SME for long haul microwave (Ericsson MINI-LINK 6200 & Aviat Eclipse) designs and implementations throughout GCI's network
• Coordinate with field crews to manage and implement designs and upgrades by providing engineering guidance and support.

Radio Frequency Engineer I
GCI Communication Corp.
May 2020 - Jul 2022 (2 years 3 months)
• Perform RF engineering & design on yearly upgrades to GCI’s TERRA microwave network throughout western Alaska.
• Design and implement microwave backhaul upgrades to support 5G cellular network installations in Anchorage, and the Mat-Su Valley.

• Assist senior engineers in design of microwave and satellite telecom solutions throughout Alaska in urban and rural areas of the state.

System Technician I

AlasConnect

Feb 2019 - May 2020 (1 year 4 months)

• Provided project and service ticket oversight on technology issues in corporate desktop and server environments.
• Maintained documentation for client IT infrastructure, including updates, maintenance, and solutions to issues.
• Managed deployment, maintenance, support and upgrades for end user PC hardware and systems.
• Planned Windows 10 OS upgrades for multiple clients with 20 to 50 devices

Software Design Engineer

Emerson

Sep 2017 - Sep 2018 (1 year 1 month)

• Software design engineer at Rosemount Inc (an Emerson company).
• Develop firmware for wireless microcontroller and embedded systems on Rosemount industrial devices and gateways.
• Support existing WirelessHART devices and gateway products within the Rosemount wireless product group.
• Design and evaluate embedded GNU/Linux board support package for next generation WirelessHART gateway.

Embedded Systems Engineer

May 2016 - May 2017 (1 year 1 month)

Worked on various UAS and UGV projects surrounding the University of Alaska Fairbanks engineering department projects. Supported research grants for the Alaska Center for Unmanned Aerial Systems Integration (ACUASI), and FAA test site for drone research.

Undergraduate Research Assistant and Electronics Hardware Designer

University of Alaska Fairbanks

Nov 2014 - May 2016 (1 year 7 months)

Assisted with a project developing a telepresence robotics platform based on Arduino controllers and other systems to allow for control of the system remotely through internet accessibility. A portion of this project required presentations to area school districts to help facilitate interest in STEM programs as students move into high school and university level education.

Engineering Intern

May 2014 - Nov 2014 (7 months)

• Coordinate with Project Manager on existing design projects and perform pertinent calculations
• Use AutoCAD and Autodesk software to create and edit design plans and drawings per Project Manager requests
• Work alongside Fire Alarm and Controls engineers/technicians to install and commission systems

Helpdesk Intern 1

AlasConnect

Sep 2013 - Mar 2014 (7 months)

• Provide quick, thorough responses to customer technology issues and properly escalate tickets to other support staff

• Maintain maintenance and ticketing logs of ongoing computer repairs and issues of current customers

• Maintain Active Directory and Exchange services according to customer requests and needs

Office of Sustainability - Student Engineer

University of Alaska Fairbanks

Aug 2012 - Dec 2013 (1 year 5 months)

• Coordinate with Director on existing energy projects

• Design and implement an electrical metering system for the new Sustainable Village housing

• Coordinate with contracted electrician to install meters and metering equipment

• Configure mini computer to collect and analyze incoming electrical data

Electrical Engineering Intern

Design Alaska

Apr 2013 - Aug 2013 (5 months)

• Coordinate with Project Manager on existing design projects and perform pertinent calculations

• Use AutoCAD and Autodesk software to create and edit design plans and drawings per Project Manager requests

• Become familiar with current NEC code and its applications in building design and construction

Electrical Engineering Intern - University Utilities

University of Alaska Fairbanks

Jun 2012 - Sep 2012 (4 months)

• Work under the supervision of power plant staff on one or more research projects

• Responsible for leading a project intended to revamp campus electrical, water, and steam metering system

• Communicate with supervisor on a regular basis about ongoing projects

Research Projects Assistant

Arctic Region Supercomputing Center

Feb 2012 - Jun 2012 (5 months)

• Work under the supervision of ARSC staff on one or more research projects

• Projects include but are not limited to: Linux and Unix operating system administration, testing and documenting software installations, network operations and/or troubleshooting, advanced technical computer maintenance, and research.

• Communicate with supervisor on a regular basis about ongoing projects

Production Coordinator

FedEx Office

Oct 2009 - Aug 2011 (1 year 11 months)

• Operate printing and finishing equipment

- Anticipate customer needs and suggesting possible alternatives
- Produce work according to pre-established priorities and according to customer needs

Education

University of Alaska Fairbanks

Bachelor of Science (B.S.), Electrical, Electronics and Communications Engineering

2012 - May 2017

In addition to earning my BS in Electrical Engineering I worked on several project funded by the National Science Foundation and NASA. I also became a part of UAF's AIAA Chapter and participated in the AIAA Design Build Fly competition.

Licenses & Certifications

Fundamentals of Engineering (EIT) - NCEES

LE-1 Linux Essentials - Linux Professional Institute (LPI)

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Skills

Linux Development • Telecom Infrastructure • Demand Forecasting • Matlab • Electrical Engineering • Linux System Administration • Embedded Systems • Embedded Linux • Embedded C++ • Python