

# Bryson Schiel

PhD Student – Mobile Computer Networking  
Brigham Young University

Provo, UT  
(425) 679-2862  
schielb@byu.edu  
[linkedin.com/in/bryson-s-82926aa6/](https://www.linkedin.com/in/bryson-s-82926aa6/)

---

I specialize in designing and optimizing ad hoc networks of IoT devices using conventional and novel networking techniques. I have explored underwater acoustic networking, vehicle networking (cellular), and traditional networks like LoRa, WiFi and Ethernet.

## EDUCATION

---

### Brigham Young University – Fulton College of Engineering

PhD Student in Electrical and Computer Engineering

Provo, UT

Apr 2026

- 3.73 GPA
- Current lead in underwater acoustic networking project
- Previous lead in Vehicle-to-Everything (V2X)
- Coursework in Wireless Networking, Digital Systems and Game Theory

Bachelor of Science: Computer Engineering

Apr 2022

Minor in Math

- 3.71 GPA
- Spacecraft Club – Club VP over Projects 2021-2; ISS Mimic 2021 Team Lead
- Coursework in Embedded and Digital systems, Computer Networking
- BYU Academic Full-tuition scholarship (2019-20) and Half-tuition scholarship (2020-21)

## SKILLS

- 
- Embedded Systems
  - Software defined radio
  - C, C++, Python
  - FPGA & SystemVerilog
  - GUI Design
  - Spanish

## INTERNSHIPS AND EXPERIENCE

---

### BYU Network Enhanced Technologies Lab

May 2022 - Present

*PhD Student Researcher*

Provo, UT

- Lead project to design a novel acoustic modem and network for underwater vehicles
- Coordinated with members of 6 educational and commercial institutions for project management
- Mentored 4 undergraduate students for research positions in lab
- Performed validation testing on 4 commercial, off-the-shelf products in indoor and outdoor settings to help Utah Department of Transportation decide on best option
- Presented in 3 international conferences to showcase work and receive professional feedback

### Lawrence Livermore National Laboratory

May 2021 - Aug 2021

*Intern, LLNL Independent Diagnostic Scoring System (LIDSS)*

Livermore, CA

- Wrote dozens of unit tests for both software and hardware development
- Built 2 apps using Python-based Qt
- Started a new iteration of legacy software for future use
- Received DOE Q-level Security Clearance

**BYU Spacecraft Club**

Jan 2020 - Aug 2022

*Grad Student Coach, Space Zero Gravity Workshop (Aug 2022)*

Provo, UT

- Coached 12 students from Chiapas, Mexico on construction of a CubeSat
- Taught product development to group to help determine design process of satellite
- Presented progress with group to state and Mexican Space Agency leaders
- Communicated technical terms in Spanish and English to better relay concepts and help build bilingualism in participants

*Vice President over Projects*

- Re-vamped club projects to improve communication and continuation with new members
- Managed relationship between club and related Capstone project

**ACHIEVEMENTS AND HOBBIES**

---

- Ira A. Fulton Fellowship Recipient (2022)
- Boy Scouts of America: Achieved Eagle Scout (2012), Silver Eagle Palm (2015)
- Hobbies include shellfishing, canoeing/kayaking, reading, bouldering, DnD, and genealogy