

# Brennen McCulloch | Military Officer

Highly adaptable US Coast Guard officer with 5 years of experience. Skilled in training and leading teams in diverse environments. Adept decision-making skills.

## Contact Details

📞 (541) 953-5523

✉️ [bmcculloch111@gmail.com](mailto:bmcculloch111@gmail.com)

📍 Juneau, AK 99801

## Education

2016–2020 | US Coast Guard Academy  
**BS Electrical Engineering**

2019 | US Naval Academy  
**Fall semester Service Exchange Program**

## Expertise

Leadership

Electrical Engineering

Microsoft Office

ArcGIS Pro

## Certifications

Wilderness First Responder

Adult, Child, Infant CPR, AED, and  
Airway Management

Epinephrine Auto-Injector

## Language

English – Fluent

French – Advanced written and  
conversational

## Relevant Experience

2022-Present | Pacific Alternatives | Juneau, AK

### Electrical Engineer

Designed electric bus charging infrastructure for the City of Juneau's electric bus fleet.

2022-Present | Juneau Sustainability Commission | Juneau, AK

### Research Analyst (Volunteer)

Conducted cruise ship emissions research and data analysis to advise city on dock electrification impacts.

2022-Present | Alaska Electric Vehicle Association | Juneau, AK

### Grant Proposal Development (Volunteer)

Wrote grant applications for federal funding through Charging and Fueling Infrastructure Grant Program to expand local EV charging infrastructure capacity and accessibility.

2022-Present | Alaska Coastal Rainforest Center | Juneau, AK

### Science Communicator (Volunteer)

Accompanied scientists in the field to photograph and film research activities, and authored photo essays summarizing ongoing field work and research in coastal margin ecosystem ecology and climate change.

2019-2020 | US Coast Guard Academy | New London, CT

### Undergrad Electrical Engineering Capstone Project

Researched hydrogen fuel applications in marine industry and designed a hybrid hydrogen fuel cell and battery ship propulsion system.

## Additional Experience

2022-Present | US Coast Guard Seventeenth District | Juneau, AK

### Waterways Management Officer

Developed Arctic navigation regulations working with Tribes, NGOs, and foreign governments. Lead command advisor in Leadership, Diversity, & Inclusion.

2020-2022 | US Coast Guard Cutter HEALY | Seattle, WA

### Student Engineer Officer

Oversaw safe operation, navigation, & coordination of emergency response of 420' ship executing polar ice operations & science support.

## Community Involvement

2022-Present | Juneau Mountain Rescue | Juneau, AK

### Mountain Rescue First Responder

Trained in backcountry search and rescue, safety, and first aid in challenging and remote Southeast Alaska environments.

## Publications

Rodriguez, J., Pierce, S., McCulloch, B., McBurney, G., & Emami, T. (2020, June 1). Hybrid Green Vessel Design, presented at 2020 ASCE Virtual Annual Conference.  
<https://doi.org/10.18260/1-2--34740>

McCulloch, B. (2022, December 20). Catch and Release Photo Essay: Tracking Salmon at Montana Creek [Alaska Coastal Rainforest Center, University of Alaska Southeast].  
<https://acrc.alaska.edu/blog/photo-essay-mcculloch.html>