

David G Hamilton – <u>David.Hamilton@MaukaForestry.com</u> <u>David.Hamilton@oregonstate.edu</u> RPF, MGEM, BSF Ph.D. Student

Professional Experience

Mauka Energy Inc & Mauka Forestry Inc, Corvallis, Oregon & Vancouver, BC CTO, CFO, Founder

August 2023 - present

Geospatial mapping services and technology development for electric vehicles

Oregon State University, Faculty of Forestry, Corvallis, Oregon Sessional lecturer

September 2021 - present

Forest Operations and policy issues

Graduate Teaching assistant

- Forest Road System management
- Linear, Nonlinear & Dynamic programming
- Logging Mechanics
- Harvesting operations

SBS Forestry Inc, Takla Nation, Prince George, BC Senior Forester and project manager assistant

June 2022 – September 2022

- Forest harvest planning and project management
- Managed helicopter & float plane layout projects

UBC Alex Fraser Research Forest, Faculty of Forestry, Williams Lake, BC Assistant Operations Supervisor

August 2018 - January 2021

- Supervised forest harvesting operations, planning, and layout design
- Managed the AFRF GIS database and assisted with network & IT support

UBC Malcolm Knapp Research Forest, Faculty of Forestry, Maple Ridge, BC Research Assistant

April 2018 – August 2018

Performed field work, research assistance and fire patrols

University of British Columbia, Faculty of Forestry, Vancouver, BC Graduate and Undergraduate Teaching Assistant

September 2017 - April 2019

- Spring field school (graduate & undergraduate TA)
- Forest surveying & road development (graduate & undergraduate TA)
- Introduction to forestry (graduate TA)
- Forest economics (graduate TA)
- Forest harvesting systems & operations (undergraduate TA)
- Computer applications in forestry (undergraduate TA)

Pioneer Forest Consultants Ltd., Layout Division, Golden, BC Forest Engineer

Engineered Interior cable & ground-based cut blocks and roads

May 2017 – August 2017

Chartwell Consultants Ltd., Forestry Division, North Vancouver, BC Junior Forest Engineer

• Engineered coastal cable cut block layout and road layout

May 2016 – December 2016

West Fraser, Woodlands Division, Quesnel, BC

Forest Technician May 2015 – August 2015

Engineered interior ground-based cut blocks and road layout

Cariboo Forest Consultants, Quesnel, BC

Forest Technician May 2014 – August 2014

Cut block layout and road layout, silviculture plots & timber cruising
 May 2013 – August 2013



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Education

OREGON STATE UNIVERSITY (OSU), Faculty of Forestry, Corvallis, OR

2021 - present

PHD student in Forest Engineering & Sustainable Forest Management

UNIVERSITY OF BRITISH COLUMBIA (UBC), Faculty of Forestry, Vancouver, BC

Masters of Geomatics and Environmental Management

Bachelor of Science in forestry: forestry resource management, major (Co-op)

Graduation Date: 2019
Graduation Date: 2018

Patents & Publications

Battery-hybrid Electric Vehicle Energy Routing Tool (BEVER) – Sole Inventor United States Patent Application Number 18/651520

April 2024

The BEVER tool and methodology arose out of research by David Hamilton at OSU. In 2024, OSU prepared and filed a USA non-provisional patent application (18/651520) to secure the core technology.

Forestry Electric Vehicle Energy Routing Tool (FEVER) – Sole Inventor United States Patent Application Number 18/349569

July 2023

The FEVER tool and methodology arose out of research by David Hamilton at OSU. In 2023, OSU prepared and filed a USA non-provisional patent application (18/349,569) to secure the core technology.

International Journal of Forest Engineering, Open Access, peer-reviewed, **first author** Submitted November 2023, Accepted April 2024

Accepted

A Forestry Electric Vehicle Energy Routing and Mapping GIS Tool

Croation Journal of Forest Engineering, Open Access, peer-reviewed, third author

Accepted

Breakeven Analysis Considering Ultra-Fast Charging Stations at Mills for Battery-Electric Log Trucks.

PLOS ONE, Open Access, peer-reviewed, second author

Published September 14, 2022

Combining aerial photos and LiDAR data to detect canopy cover change in urban forests.

ABCFP, Professional Forester Magazine Publication, first author

Published June 17, 2020

• Alex Fraser Research Forest interior Douglas-fir beetle 2020 update

Certification and Training

2023 OSU Advantage Accelerator

2022 Forestry Field Safety Training with Jim Kiser

2021 OSU Van Safety Training

2016 First Aid level 1 (updated 2022)

2015 S-100A basic fire suppression and safety certification

2010 Valid class 5 BC driver's license

Volunteer Experience and Extra- Curricular Activities

OSU Forestry Graduate Student Council, Corvallis, OR **Social Chair**

Forestry Undergraduate Society Vancouver BC

Forestry Undergraduate Society, Vancouver, BC Canadian Institute of Forestry - Student Liaison

February 2017 - April 2018

September 2021 - present

OSU Logger Sports, Corvallis, Oregon UBC Logger Sports, Vancouver, British Columbia

2021 - present 2017 – 2019