

Professional Experience

- Mauka Energy Inc & Mauka Forestry Inc**, Corvallis, Oregon & Vancouver, BC August 2023 - present
CTO, CFO, Founder
- Geospatial mapping services and technology development for electric vehicles
- Oregon State University, Faculty of Forestry**, Corvallis, Oregon September 2021 - present
Sessional lecturer
- 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 June 2022 – September 2022
Senior Forester and project manager assistant
- Forest harvest planning and project management
 - Managed helicopter & float plane layout projects
- UBC Alex Fraser Research Forest, Faculty of Forestry**, Williams Lake, BC August 2018 – January 2021
Assistant Operations Supervisor
- 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 April 2018 – August 2018
Research Assistant
- Performed field work, research assistance and fire patrols
- University of British Columbia, Faculty of Forestry**, Vancouver, BC September 2017 – April 2019
Graduate and Undergraduate Teaching Assistant
- 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 May 2017 – August 2017
Forest Engineer
- Engineered Interior cable & ground-based cut blocks and roads
- Chartwell Consultants Ltd., Forestry Division**, North Vancouver, BC May 2016 – December 2016
Junior Forest Engineer
- Engineered coastal cable cut block layout and road layout
- West Fraser, Woodlands Division**, Quesnel, BC May 2015 – August 2015
Forest Technician
- Engineered interior ground-based cut blocks and road layout
- Cariboo Forest Consultants**, Quesnel, BC May 2014 – August 2014
Forest Technician
- Cut block layout and road layout, silviculture plots & timber cruising
- May 2013 – August 2013



David G Hamilton – David.Hamilton@MaukaForestry.com
David.Hamilton@oregonstate.edu

RPF, MGEM, BSF
Ph.D. Student

Education

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| OREGON STATE UNIVERSITY (OSU) , Faculty of Forestry, Corvallis, OR | 2021 - present |
| PHD student in Forest Engineering & Sustainable Forest Management | |
| OSU's Google PhD Fellowship Nominee | 2024 |
| UNIVERSITY OF BRITISH COLUMBIA (UBC) , Faculty of Forestry, Vancouver, BC | |
| Masters of Geomatics and Environmental Management | Graduation Date: 2019 |
| Bachelor of Science in forestry: forestry resource management, major (Co-op) | Graduation Date: 2018 |

Patents & Publications

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| Battery-hybrid Electric Vehicle Energy Routing Tool (BEVER) – Sole Inventor | April 2024 |
| United States Patent Application Number 18/651520 | |
| 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 | July 2023 |
| United States Patent Application Number 18/349569 | |
| 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 | May 23, 2024 |
| • A Forestry Electric Vehicle Energy Routing and Mapping GIS Tool | |
| Croatian Journal of Forest Engineering , Open Access, peer-reviewed, third author | Accepted June 16, 2023 |
| • Breakeven Analysis Considering Ultra-Fast Charging Stations at Mills for Battery-Electric Log Trucks | |
| PLOS ONE , Open Access, peer-reviewed, second author | September 14, 2022 |
| • Combining aerial photos and LiDAR data to detect canopy cover change in urban forests | |
| ABCFFP , Professional Forester Magazine Publication, first author | June 17, 2020 |
| • Alex Fraser Research Forest interior Douglas-fir beetle 2020 update | |

Research Grants

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| Department of Energy Small Business Innovation and Research Grant Phase 1 | July 2024 – April 2025 |
| Project Title: Mauka Energy Fever Tool | Funding Amount: \$200,000 USD |
| Role: Principal Investigator | |

Certification and Training

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| 2023 | OSU Advantage Accelerator |
| 2021 | OSU Van Safety Training |
| 2016 | First Aid level 1 (updated 2022) |
| 2015 | S-100A basic fire suppression and safety certification |

Volunteer Experience and Extra- Curricular Activities

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| OSU Forestry Graduate Student Council , Corvallis, OR | |
| Social Chair | September 2021 – present |
| Forestry Undergraduate Society , Vancouver, BC | |
| Canadian Institute of Forestry - Student Liaison | February 2017 – April 2018 |
| OSU Logger Sports , Corvallis, Oregon | 2021 - present |
| UBC Logger Sports , Vancouver, British Columbia | 2017 – 2019 |