CURTIS LIBBY
82 Fourth Street • Apartment 4 • Old Town, Maine 04468
1-207-694-8093 • curtis.libby@maine.edu

EDUCATION

UNIVERSITY OF MAINE, Orono, ME — MS received August 2014
Major: Mechanical Engineering — Overall GPA 3.29

MAINE MARITIME ACADEMY, Castine, ME — BA received May 2011
Major: Marine Systems Engineering Design — Overall GPA 3.76
Minor: Naval Architecture

RELEVANT WORK / RESEARCH EXPERIENCE

University of Maine: Advanced Structures and Composites Center Orono, Maine — August 2012 - present
Graduate Research Assistant

- Lead on-site technical support and repairs for the 1:8 VolturnUS offshore floating wind turbine
- Design comprehensive data acquisition and control system for VolturnUS performance validation
- Lead hardware assembly and installation of instrumentation components during VolturnUS deployment
- Collaborate with consultants in the development of effective control and data acquisition software for the VolturnUS platform
- Manage and supervise undergraduate students and technical interns in support of VolturnUS testing

R.M. Beaumont Corp. Brunswick, Maine — May 2011 - March 2014
Research Engineer & IT Specialist

- Designed and built data acquisition systems for validation testing of tidal turbines, oscillating water column generators, wave tank simulators, and tidal generator simulators
- Created CAD models and shop drawings (SolidWorks) of mouse carts and instrumentation support structures
- Provided IT and networking services, including software license management, security system installation, and computer assembly for clients
- Compiled performance reports utilizing data from acquisition system testing
- Developed program for analyzing subsea tubular joint welds for conformance with structural standards

Capstone Research Projects, Castine, Maine — November 2010 - May 2011
Engineering Student & Instrumentation Technician

- Manufactured a modular scaled tidal turbine device using 3D printing manufacturing
- Tested the effects of multiple mooring line configurations on a scaled tidal turbine in a tow tank
- Completed stability analysis of a tidal turbine testing platform developed by Maine Maritime Academy
- Designed and manufactured a data acquisition system to be used in testing a $1/50^{th}$ scale floating wind turbine

Ocean Renewable Power Company, Eastport, Maine — Summers 2009 & 2010
Engineering Intern

- Participated in validation testing of a fully operational Darrieus tidal turbine
- Installed and maintained instrumentation components in conjunction with testing
- Developed operational and safety protocols for daily turbine operation
- Established comprehensive testing plan for Acoustic Doppler Current Profiler deployments, including post-test analysis code (MATLAB)
- Submitted proposals for power generation and instrumentation components used to support testing
- Performed daily inspections and maintenance of barge testing platform

AWARDS & ACHIEVEMENTS

DIRECTOR'S AWARD: Outstanding Graduate Student, University of Maine, Orono, Maine — May 2014
DIRECTOR'S AWARD: Outstanding Design Team, University of Maine, Orono, Maine — May 2014
E.I.T CERTIFICATION, State Board of Licensure for Professional Engineers, Maine — May 2011
HENRY A. SCHEEL SCHOLAR, Maine Maritime Academy, Castine, Maine — November 2010

References:

1. Ryan Beaumont, PE: Principal Engineer and Owner at R.M. Beaumont Corp.
ryan@rmbeaumontcorp.com
Tel: 207-406-2597

2. Andrew Goupee, Ph.D: Research Assistant Professor at the Advanced Structures and Composites Center, University of Maine
agoupe91@maine.edu
Tel: 207-581-2817

3. Russell Edgar: Wood Composites Manager at the Advanced Structures and Composites Center, University of Maine
russell.edgar@maine.edu
Phone: 207-299-4215