

Sam McWilliams, E.I.T.

Experience

Sept. 2014 to present Integral Consulting Inc. Santa Cruz, CA

Senior Scientist

- Assist in the development of tools to aid in environmental assessments for marine renewable energy projects.
- Participate in developing numerical hydrodynamic models to address client questions in near-shore and estuarine environments related to sediment transport.
- Manage geotechnical laboratory assessing physical sediment properties.

July 2013 to Sept. 2014 Sea Engineering, Inc. Santa Cruz, CA

Ocean Engineer

- Applied a wide variety of analytical techniques to develop solutions to engineering problems in coastal and estuarine environments.
- Produced clear and concise conclusions in a timely manner based on engineering assessments for use in remediation efforts.

June. 2011 to April 2012 National Parks Service & Florida Institute of Technology Melbourne, FL

Research Assistant

- Specialized in automated data processing and real-time data system programming.
- Utilized the Stanford Unstructured Non-Hydrostatic terrain following adaptive Navier-Stokes simulator to model to determine oyster reef restoration locations in the Indian River Lagoon.

Education

2010 to 2013 Florida Institute of Technology Melbourne, FL

M.S., Ocean Engineering

- EIT 2010

2006 to 2010 Florida Institute of Technology Melbourne, FL

B.S., Ocean Engineering

- Concentration: Coastal Engineering