

# J E D E D I A H S M I T H

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## EDUCATION

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University of Washington  
**Bachelor of Science, Physics** Seattle, WA  
2005

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## EXPERIENCE

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**Advanced Research Corporation** Newport, OR  
Engineer/Analyst 2008-2010

- Gaps Analysis report of Oregon Wave Energy infrastructure and state of industry
- Developed interactive kiosk and online database/interface for Project CROOS
- Collected and analyzed GPS data as federal government agency consultant

**OceanSpar LLC** Bainbridge, WA  
Ocean Engineer 2006

- Designed new offshore aquaculture products and integrated systems
- Spearheaded team activities for new product lines

**Fugro Seafloor Surveys, Inc.** Seattle, WA  
Electronics Engineer 2006

- Research & Development of an Autonomous Underwater Vehicle (AUV)
- Managed AUV operations, upgrades and implementation
- Improved AUV computer, timing, and network systems—QNX, Windows
- Vessel mobilizations and hydraulic system repairs and rebuilds

**Plasma Dynamics Laboratory, University of Washington** Seattle, WA  
Engineering Technician—Experiment Lead 2004-2006

- Designed, enacting and overseeing experiments from concept through completion
- Development and fabrication of specialized scientific apparatus and systems
- Scientific community presentations and collaboration with NASA

**HIT-II Laboratory, University of Washington** Seattle, WA  
Senior Student Researcher 2001-2003

- Advanced scientific instrumentation design, testing, and operation
- High voltage and ultrahigh vacuum system experience
- Laser and optical alignment expertise

**jag Werks** Fort Davis, TX  
Owner 1998-2003

- Computer assembly, diagnostic, and repair services for Windows, Mac, and Linux
- Designed and implemented computer networks for individuals and businesses

**Hobby-Eberly Telescope, McDonald Observatory** Fort Davis, TX  
Student Assistant 2000 and 2003

- Electronic control work with stepper motors
- Primary mirror segment alignment procedures and tools

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## RELEVANT SKILLS

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**Computer:** CAD, LabView, Matlab, Word, Excel, Desktop Publishing, Networking

**Programming:** Python, HTML, PHP, Javascript, C/C++

**Engineering:** Circuits, Optics, Machine Shop, High Voltage/Current applications, GPS

**Travel:** Offshore Surveying, Offshore Sailing, Year of Travel through the South Pacific

**Boat Maintenance:** Electronics, Wood, Electrical, Fiberglass, Diesel, Plumbing

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## CERTIFICATIONS

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**Sailing Instructor**

**Private Pilot License**

**Amateur Radio License – KF7GMC**

**Advanced SCUBA (PADI) Certification**

**Safety - Standards of Training, Certification and Watchkeeping (STCW)**

**Forklift/Crane Operator**

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## PROFESSIONAL CONFERENCES

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**Heceta Head Coastal Conference** 2009 and 2010

**Ocean Renewable Energy Conference IV** 2009

Poster presentation

**Coastal Climate Action Conference** 2009

**ProjectCroos Project Conference** 2009

**Ocean Renewable Energy Conference III** 2008

**Northwest Solar Expo & Professional Solar Training Conference** 2008

**American Physical Society, Division of Plasma Physics Conference** 2005

Poster presentation