

Steven C. Howard, P.E., D.CE.

12960 Planters Creek Cir S
Jacksonville, FL 32224
(904) 472-3476
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Employment History

Olsen Associates, Inc., Consulting Engineer, Jacksonville, Florida

June 1999 – Present

Well rounded professional engineering position involving multiple aspects of coastal engineering as related to the implementation of shoreline protection, navigation, dredging, and inlet management projects. Job tasks continually evolved in responsibility with seniority and required demonstrating proficiency in:

- ◆ morphological shoreline/inlet modeling
- ◆ numerical modeling of spectral and monochromatic waves
- ◆ data collection / surveying / field work
- ◆ estuarine and hydrographic modeling
- ◆ statistical investigation of extreme storm events
- ◆ economic optimization
- ◆ cost analysis
- ◆ storm damage modeling
- ◆ littoral transport modeling
- ◆ producing plans and specifications
- ◆ project permitting
- ◆ construction monitoring
- ◆ performance monitoring
- ◆ sediment analysis

As a consulting engineer, Mr. Howard has applied these skills in serving the interests of private and municipal clients, thereby demonstrating an ability to effectively communicate complex, technical concepts to clients both verbally and in writing. Engineering experience includes projects constructed in Dubai, UAE, the Maldives, as well as, multiple locations throughout the Caribbean and the Southeastern United States. Completed projects involved:

- ◆ beach restoration
- ◆ marina design and construction
- ◆ inlet stabilization and management
- ◆ coastal structure design and construction
- ◆ dredging projects
- ◆ hydraulic studies
- ◆ coordination with the US Army Corps of Engineers as required for implementation of Federal Shore Protection Projects.
- ◆ sediment borrow site optimization and selection
- ◆ numerical modeling and analysis
- ◆ contractor oversight during construction

Texas A&M University, Civil Engineering Department

Sept. 1997 – May 1998

Instructed junior/senior level undergraduate fluid dynamics labs. Developed lectures and teaching materials as well as created lesson plans and exams for over 50 students.

McDermott Engineering, Houston, Texas

Summer 1997

Naval Architect responsible for analysis on the "Baldpate" compliant tower in the Gulf of Mexico. Investigation included extensive use of MOSES program to develop a comprehensive, proprietary report on the detail design phase of loadout, transportation, launch, upending and lowering of the tower's base section.

Texas A&M University, Ocean Engineering Program

Sept. 1996 – May 1997

Researcher on a dedicated engineering team, wrote FORTRAN programs and aided in scale model testing of Alcoa's dredge island in Lavaca Bay. Results proposed specific and actionable recommendations as to shoreline protection.

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Employment History (continued)

Research Experience for Undergraduates

Summer 1996

Funded by: Offshore Technology Research Center, National Science Foundation.

Chosen from international applicant pool to participate in autonomous research investigating the effects of erosion on buried offshore pipelines. Findings were published and integrated into a larger Texas Transportation Institute survey whose recommendations were presented to the US Congress.

Education

- May 1999 Texas A & M University--Department of Civil Engineering, College Station, Texas
Master of Science, Ocean Engineering; GPA: 3.7/4.0
Thesis: *Impact of Shoreline Change on Proposed Texas Highway 87 Reconstruction*
- May 1997 Texas A & M University--Department of Civil Engineering, College Station, Texas
Bachelor of Science, Ocean Engineering; GPA: 3.2/4.0, overall; 4.0/4.0, in major

Professional Licensure and Computer Skills

- ◆ Licensed Professional Engineer in the State of Florida, No. 60120
- ◆ Diplomate in the Specialty of Coastal Engineering through ACOPNE.
- ◆ Demonstrated fluency through application of the following software packages:
 - ◆ All MS office
 - ◆ AutoCAD
 - ◆ ArcView GIS
 - ◆ Surfer
 - ◆ Grapher
 - ◆ Diger
 - ◆ UNIX
 - ◆ FORTRAN
 - ◆ MATLAB
 - ◆ MathCAD
 - ◆ MOSES
 - ◆ GENESIS
 - ◆ STWAVE
 - ◆ SWAN
 - ◆ SBEACH
 - ◆ EDUNE
 - ◆ SMS
 - ◆ REF/DIF 1 / s
 - ◆ ADCIRC
 - ◆ RMA2
 - ◆ RMA4
 - ◆ Delft3D

Awards and Publications

- ◆ Howard, Steven C, PE. "Computation of Large-Scale, Regional Sediment Budget using Delft3D." 2010 National Conference on Beach Preservation Technology. Melbourne, Florida. February 2010.
- ◆ Bodge K.R. and Howard S.C. "Island Repair in the Maldives." Shore and Beach. Journal of the American Shore & Beach Preservation Association. Vol 76, No. 4, Fall 2008 pp. 17-24.
- ◆ Bodge K.R. and Howard S.C. "Groins, headland, and cutting an Island in two in the Maldives." Proc., *30th International Conf. on Coastal Engineering 2006*; World Scientific Publishing Co., Pte Ltd. 2006.
- ◆ Howard, Steven C, PE. "Development of Wave Height Study Criteria. Review of Gulf-front Development Permit Applications, City of Gulf Shores, AL" 2004 National Conference on Beach Preservation Technology. Feb 2004.
- ◆ Howard, Steven C. "Evaluation of Dredging Alternatives Using the ADCIRC Regional Circulation Model: St. Mary's Entrance, FL/GA." 2003 National Conference on Beach Preservation Technology. Feb 2003.
- ◆ Kevin R. Bodge, Ph.D., P.E., and Howard, S.C.. "Performance of Sand Bypassing At Canaveral Harbor, Florida; 1995-2002." Proc. *2002 Conference on Beach Preservation Technology*.
- ◆ Howard, Steven C. "The Pipeline of the East Coast? A look at Artificial Surfing Reefs." 2002 National Conference on Beach Preservation Technology. Feb 2002.
- ◆ Howard, Steven C. and Creed, Christopher G. "The Empirical Simulation Technique in Predicting Storm-Induced Beach Damage." Proc. 2000 National Conference on Beach Preservation Technology. Feb 2000.
- ◆ Howard, Steven C. "Erosion Effects on Buried Offshore Pipelines," U.S.R.P., Vol. II. 1996.
- ◆ 1998 recipient, Dr. Chester P. Jelesnianski memorial fellowship in Ocean Engineering
- ◆ 1996 recipient, Marine Technology Society's annual ROV scholarship
- ◆ Current member of ASCE, ASBPA, and ACE.