

Darren L. Hauser, S.I.T.
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Education

University of Houston	Houston, TX
Master of Science	August 2013
<i>Geosensing Systems Engineering & Sciences</i>	
<i>Thesis: Three-Dimensional Accuracy Analysis of a Mapping-Grade Mobile Laser Scanning System</i>	
Pennsylvania State University – Wilkes-Barre	Lehman, PA
Bachelor of Science	May 2011
<i>Surveying Engineering</i>	
SUNY College of Technology – Alfred State	Alfred, NY
Bachelor of Technology	May 2009
<i>Manufacturing Technology</i>	

Professional Experience

National Center for Airborne Laser Mapping	Houston, TX
<i>Research Associate</i>	September 2013–Current
<ul style="list-style-type: none">▪ Performed airborne laser mapping for geological, geoscience, and archaeological applications▪ Performed terrestrial laser scanning for civil, geological, and geoscience applications▪ Assisted in research, testing, and analysis of various remote sensing systems	
University of Houston	Houston, TX
<i>Research Assistant</i>	January 2012–August 2013
<ul style="list-style-type: none">▪ Researched laser mapping systems to be implemented on mobile platforms▪ Performed terrestrial laser scanning for civil, geological, and geoscience applications▪ Assisted in building and testing compact laser scanner/inertial navigation systems	
University of Houston	Houston, TX
<i>Teaching Assistant</i>	September 2011–December 2011
<ul style="list-style-type: none">▪ Taught <i>Computing for Engineers</i> laboratory▪ Tutored undergraduate students in computer programming techniques	
Navarro & Wright Consulting Engineers, Inc.	Wysox, PA
<i>Crew Chief</i>	May 2011–August 2011
<ul style="list-style-type: none">▪ Led stakeout surveys for gas pipelines and horizontal directional drilling▪ Surveyed and planned control traverses for boundary and well pad location	
Navarro & Wright Consulting Engineers, Inc.	Towanda, PA
<i>Field Surveyor</i>	May 2010–August 2010
<ul style="list-style-type: none">▪ Assisted in surveys for boundary, construction, and gas pipelines▪ Researched deeds and located boundary evidence	

Selected Papers & Presentations

Minson, Sarah E., Benjamin A. Brooks, Craig L. Glennie, Jessica R. Murray, John O. Langbein, Susan E. Owen, Thomas H. Heaton, Robert A. Iannucci, and Darren L. Hauser. "Crowdsourced Earthquake Early Warning." *Science Advances* 1, no. 3 (10 April **2015**): e1500036. doi: 10.1126/sciadv.1500036.

Brooks, Benjamin A., Craig Glennie, Kenneth Hudnut, Todd Ericksen, and Darren Hauser. "Mobile Laser Scanning Applied to the Earth Sciences." *Eos, Transactions, American Geophysical Union* 94, no. 36 (3 September **2013**): 313-315. doi: 10.1002/2013EO360002.

Hauser, Darren, Craig Glennie, Benjamin Brooks, and Todd Erickson. "Accuracy Analysis of a Low Cost, Kinematic LiDAR Scanner." presentation at the ASPRS Annual Conference, Baltimore, MD, March 24-28, **2013**.

Glennie, Craig, Benjamin Brooks, Todd Ericksen, Darren Hauser, Kenneth Hudnut, James Foster, and Jon Avery. "Compact Multipurpose Mobile Laser Scanning System — Initial Tests and Results." *Remote Sensing* 5, no. 2 (February **2013**): 521-538. doi: 10.3390/rs5020521.

Glennie, Craig L., Benjamin A. Brooks, Todd L. Ericksen, Darren Hauser, Kenneth W. Hudnut, James H. Foster, and Jon Avery. "Compact Adaptable Mobile LiDAR System Deployment." Poster G23A-0886 at the AGU Fall Meeting, San Francisco, CA, December 3-7, **2012**.

Scholarships & Fellowships

American Association for Geodetic Surveying Graduate Fellowship Award	2012
Pennsylvania Society of Land Surveyors Student Paper Competition – 2 nd Place	2011
National Society of Professional Surveyors Scholarship	2010–2011
Pennsylvania Land Surveyors' Foundation Scholarship – 2 nd Place	2010–2011
Excellence in Education Scholarship	2005–2009

Sample Projects

Arkansas/Missouri – Multi-sensor (multiple wavelength terrestrial laser scanners; handheld scanners; visible, thermal, and hyperspectral imagery; GPS; ground-penetrating radar) mapping of geological sites	May 2015
Guatemala/Mexico – Airborne laser and visible imagery mapping of Mesoamerican archaeological sites in Peten, Teotihuacan, and Michoacan	March–April 2015
Antarctica – Airborne laser and visible imagery mapping of the McMurdo Dry Valleys	December 2014– January 2015
Mexico – GPS base station support for airborne laser mapping of Mesoamerican archaeological sites in the Yucatan Peninsula	May 2014
Oman – Terrestrial laser and visible imagery mapping of the Semail Ophiolites	January 2014