



Jeffery Hollingsworth

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<https://www.uaa.alaska.edu/collegeofengineering/faculty-staff/hollingsworth.cfm>

Personal Statement

As a qualified, professional and successful Surveyor and Mapper, I bring a valuable and unique asset to the Geomatics education community. I have a strong desire to share my experiences with aspiring students through the mission of the university environment. I strongly believe that real world experience together with a solid educational background form the foundation of a successful professional in the field of Geomatics. My Career Goal involves continued educational instruction, professional growth, community, professional service and research activities

Education

2011	University of Colorado Denver M.Sc.: Civil Engineering (GIS Specialty)	Denver Colorado
2009	University of Colorado Denver Post-Bac Certificate: Geographic Information Systems	Denver Colorado
1981	Ferris State University Bachelor of Science: Surveying	Big Rapids

Areas of Interest

- UAV Uses and Geomatics Applications
- Spatial Data Adjustments
- Multibeam/Single Beam Hydrographic Surveying and Bathymetric Surveys
- Boundary Determinations and Legal Principles
- Terrestrial LiDAR integration and GIS

Academic Appointments and Professional Experience

August 2012 — Current	University of Alaska Anchorage Associate Professor	Anchorage
	<ul style="list-style-type: none"> • Taught 15 distinct introductory and upper level courses in Geomatics and GIS • Fostered students' commitment to lifelong learning by connecting course materials to broader themes and current events. • Served on numerous college committees and acted as chair of the Facilities Committee. • Demonstrated a continued commitment to undergraduate teaching through full participation in the college community. • Developed and delivered engaging lectures to undergraduate students. • Wrote course materials such as syllabi, homework assignments and handouts. • Wrote, administered and graded midterm and final examinations. • Planned, evaluated and revised course content and course materials. • Supervised and evaluated students' laboratory work. • Developed courses in line with the curriculum requirements of the Department of Geomatics by key participation in a complete curriculum redevelopment of the programs in AY 2013-2014. • Participation, Editing and submission of program revisions for the 2017 catalog year. 	
August 2011 —	Pennsylvania College of Technology Instructor	Williamsport

- July 2012
- Taught introductory level courses in Surveying Technology and Civil Engineering Technology.
 - Courses taught include: Computer Applications for Engineering and Surveying, Topographic Surveys and Mapping, Survey Measurement Analysis and Adjustments, Geographic Information Systems, Photogrammetry
 - Demonstrated a continued commitment to undergraduate teaching through full participation in the college community.
 - Developed and delivered engaging lectures to undergraduate students.
 - Wrote course materials such as syllabi, homework assignments and handouts.
 - Wrote, administered and graded midterm and final examinations.
 - Planned, evaluated and revised course content and course materials.
 - Monitored students' academic progress and referred students who were struggling to campus resources.
 - Authored a new program BS degree in Geospatial Technology.
- October 1997
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July 2011
- GeoMap Technologies, Inc** Brandon
President and Resident Surveyor (Professional Surveyor and Mapper; Administrator)
- Managed and supervised all Survey and Mapping activities.
 - Project manager and professional surveyor for US Army Corps of Engineers IDIQ contracts, USEPA, FDEP and Commercial Clientele.
 - Expert in survey measurement techniques, survey adjustments using least squares, Remote sensing and GIS mapping Led the company on major projects requiring exceptional talent, innovative leadership, organisational and motivational skills.
 - Has taught the surveying and mapping industry methodology to numerous professionals.
 - Expert working knowledge, Ability to Instruct and skills in the usage of standard surveying equipment including Total Stations w/data collectors, GPS receivers , GIS applications (ArcGIS), AutoCAD, Microstation, Surveying and Civil Engineering applications specifically designed for AutoCAD (ie. Microsurvey, Carlson, Trimble, TDS), Microstation (Bentley Civil Suite, Inroads) Knowledge and skills in the development and usage of Microsoft Office products including Excel Spreadsheets.
 - Thousands of surveys have been performed under direct supervision in the following areas: Boundary, Topographic, Single Beam and Multibeam Hydrographic Surveys, 3D Laser Scanning, As-Built, Construction, GPS NGS Blue Booking , RTK Surveys, GPS Control Surveys, Design Surveys, Land & Right of Way Surveys, Photogrammetry (Digital Softcopy, LIDAR) , ALTA, Remote Sensing (Multispectral and Hyperspectral), Route Surveys, Water Boundary Surveys, and OSHA (Superfund) Surveys
 - Analysed contract performance for bids, budgets and forecasts.
 - Planned and conducted staff trainings, with an emphasis on standards of practice and quality assurance.
 - Completed complex technical surveys for the development of roadway, civil works projects, commercial development, intersection and bridge construction plans.
 - Analysed survey reports, maps, blueprints and other topographical and geographic data to effectively plan projects.
 - Reviewed calculations and analytical data to maintain accuracy of the technical reports.
- March 1986
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October 1997
- Hollingsworth & Associates, Inc** Plant City
President and Resident Surveyor
- Managed and supervised Survey and Mapping production and all proposals and business activities.
 - Highly proficient in Boundary, Topographic, Single Beam and Multibeam Hydrographic Surveys, 3D Laser Scanning, As-Built, Construction, GPS NGS Blue Booking , RTK Surveys, GPS Control Surveys, Design Surveys, Land & Right of Way Surveys, Photogrammetry, ALTA, Acquisition Related Surveys, Survey

	Computations, Route Surveys, Water Boundary Surveys, OSHA Surveys and Legal Description Preparation.	
	<ul style="list-style-type: none"> ● Performed large scale mapping projects using Trimble Static and RTK products. ● Utilized surveying technologies to accomplish automated field to finish mapping. ● Developed programs for producing streamlined AutoCadd and MicroStation Deliverables. ● Reviewed calculations and analytical data to maintain accuracy of the technical reports. ● Reviewed and assisted in performing technical bid analysis. ● Analysed survey reports, maps to effectively plan projects. 	
July 1984 —	Delta Engineering Company	Tampa
March 1986	Registered Land Surveyor	
	<ul style="list-style-type: none"> ● Reviewed calculations and analytical data to maintain accuracy of technical reports. ● Analysed survey reports, maps, blueprints and other boundary, asbuilt, quantity, topographical datasets to effectively create survey deliverables. 	
June 1983 —	Watson and Company	Tampa
July 1984	Party Chief	
March 1982 —	Boldt, McLeod and Johnson, Inc	Port Huron
June 1983	Survey Party Chief	
May 1981 —	Kay Engineering	Brown City
March 1982	Survey Party Chief	

Courses Taught

- University of Alaska Anchorage
- GEO A146 Geomatics Computations I
 - GEO A155 Introduction to Surveying
 - GEO A156 Fundamentals of Surveying
 - GEO A157 Computer-Aided Drafting for Surveyors
 - GEO A248 Digital Terrain Cartography
 - GEO A266 Advanced Surveying
 - GEO A364 Spatial Data Adjustments I
 - GEO A359 Geodesy and Map Projections
 - GEO A366 Spatial Data Adjustments II
 - GEO A 267 Boundary Law I
 - GEO A 457 Boundary Law II
 - GEO A369 Cadastral Surveys
 - GEO A466 Geopositioning
 - GIS A 458 Design and Management of Spatial Information
 - GIS A 468 Integration of Geomatics Technologies
 - ESM A450 Engineering Economy and Operations
- Pennsylvania College of Technology
- Computer Applications for Engineering and Surveying
 - Topographic Surveys and Mapping Survey
 - Measurement Analysis and Adjustments
 - Geographic Information Systems
 - Photogrammetry

Grant Awards and Research Contributions

- Research for Esri and PCI Natural Resources Imagery Grant Program "How Local And Regional Geomorphic, Vegetative And Hydrologic Change Affects Alaskan King Salmon Habitat: A Change Detection Case Study Using GIS and SAR Imagery" Researchers: Jeffery P Hollingsworth, PS; Gennady Gienko, Ph.D.; Nicholas William Hazelton, Ph.D.; Dr. E. Jamie Trammell (awarded 2013)
- Contributed to research for PACTRANS "Assessment of Terrestrial Lidar and

Drone Photogrammetry for Unstable Rock Slopes" in cooperation with University of Alaska Fairbanks and Oregon State University. Researchers: Keith Cunningham, PhD.; Michael Olsen, PhD.

- Received Grant of \$500,000 in Engineering Software from Microsurvey in 2012

Grant Proposal Preparation

- Contributed significantly in the writing and preparation of these proposals:
- Esri and PCI Natural Resources Imagery Grant Program "How Local And Regional Geomorphic, Vegetative And Hydrologic Change Affects Alaskan King Salmon Habitat: A Change Detection Case Study Using GIS and SAR Imagery" Jeffery P Hollingsworth, PS; Gennady Gienko, Ph.D.; Nicholas William Hazelton, Ph.D.; Dr. E. Jamie Trammell \$100,000 (Data and Software). November 2012 {January 2013.Awarded}.
- Innovate fund for research, scholarship, and entrepreneurship "Developing UAVs for mapping and monitoring large linear structures" Nicholas William Hazelton, Ph.D; Jeffery P Hollingsworth, PS \$10,000 .November 2012.
- Discover Denali Research Fellowship "Upgrading Geospatial Integrity with GPS Control" Jeffery P Hollingsworth, PS; Nicholas William Hazelton, Ph.D \$8,000 .February 2013.

Conference Talks and Presentations

- Conference presentation at the Alaska Surveying and Mapping Conference (ASMC) 2013, Anchorage, Alaska "Integration of Terrestrial Based LiDAR into a Geographic Information System."
- Conference presentation at the Alaska Surveying and Mapping Conference (ASMC) 2013, Anchorage, Alaska "ALTA/ACSM LAND TITLE SURVEYS - Addressing the Purpose."
- Conference Presentation at Alaska Surveying and Mapping Conference (ASMC) 2015, Anchorage, "Alaska Geomatics Education – Sustain or Transform?"

Affiliations

- American Society of Photogrammetry and Remote Sensing
- Alaska Society of Professional Surveyors National Society of Professional Surveyors
- National Society of Professional Surveyors
- Geographic and Land Information Society
- UAA GIS Users Group

Academic Service

- [UAA](#) contact for [ESRI ArcGIS](#) subscription and [ArcGIS](#) Online as well as Tier 1 support for [UAA](#) (authorised caller)
- Served on the School of Engineering, Hardware and Software committee 2012-2013
- Served on the College of Engineering, Curriculum committee 2013-2014
- Chair Department of [Geomatics](#) Safety Committee
- Chair of the College of Engineering Facilities Committee
- Chair Department of Geomatics AY 2017-Present
- Served on the College of Engineering, Academic Assessment Committee 2015-2016
- Served on the University, Academic Assessment Committee 2015-2018
- Served on Faculty Senate, College of Engineering elected representative 2015-2016
- Academic Assessment Coordinator for Department of [Geomatics](#) 2014-Present
- Co-authored majority and coordinated ABET Self Study, conducted assessment data collection, ran faculty evaluation retreats for 2016 accreditation. 2014 to present.

Professional and Community Service

Professional Service

- Alaska Land Surveyor's Examination (AKLS) workshop participation for AY 2014-2016
- Served on the 2015 Alaska Surveying and Mapping Conference Planning Committee
- Peer Reviewer for SaLIS Journal
- Secretary for Geographic and Land Information Society (GLIS)
- ABET Evaluator for ASAC Commission

Community Service

- Presented a GIS lecture and discussion requested by Gary Snyder, Science Teacher, East High School AY 's 2012, 2014 and 2015
- Public: Volunteer in Engineering Ministries International (EMI) is a non-profit Christian development organization made up of architects, engineers and design professionals who donate their skills to help children and families around the world step out of poverty and into a world of hope.
- Judge for Alaska State Science Fair 2015 and 2016

K-12 Outreach and Recruitment Activities

- Manned the Geomatics Booth 2012, Freshman Convocation
- Presented mock lecture for Fall Preview day 2012-2015
- Presented mock lecture for outreach Kids2College on April 12th, 2013
- 2012-2015 Freshman Convocation, Wendy Williamson Auditorium Dessert Social/Parent Reception
- College of Engineering E-Week Volunteer

Professional Licensure and Certifications

Certified Geographic Information System Professional(GISP)

- Certificate Number 78950

Licensed Professional Surveyor:

- Alaska 13843
- Florida PSM No. 4156 (Retired)
- North Carolina L-4404
- Michigan. 4001049353
- Wisconsin 2776-8
- Georgia LS 002948

Non Active Licenses:

- Mississippi 3138
- Alabama 28573

Technical Knowledge and Skills

Surveying Industry Skills

- [Field to Finish Mapping](#)
- Total Stations, Robotics
- GNSS survey systems
- Microsurvey StarNet
- Trimble Business Center
- Trimble Terramodel
- Leica Geo Office
- Adjust, Stats, Matrix
- ArcGIS 10.x
- Bentley InRoads
- Softcopy Photogrammetry
- Spatial Imaging (3D Laser Scanners)
- Hydrographic Survey-Hypack
- AutoCadd Civil3D
- MicroStation
- Carlson Survey
- SDR Map

Computer and Software Skills

- ENVI
- [SQL, Access Databases RDMS](#)
- [Microsoft Office Products](#)
- [Visual Studio](#)
- [Microsoft Sharepoint](#)
- Computer Programming
- Web Programming
- ASP, DotNet, HTML, Visual Basic
- ArcObjects
- Computer Networking
- [Best practices in on-line instruction](#)

- Leica Cyclone
- ERDAS Imagine