

John G. Doroba Jr.

CONTACT

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Cell Phone: 610.256.1561

Location: Baltimore, MD

PROFESSIONAL SUMMARY

Scientist with background in GIS, hydrography, surveying, cartography geospatial analysis, and earth science.

EDUCATION

University of Maryland (2021)

MS Geospatial Information Systems

University of Delaware (2006)

BA Geography

RESEARCH

Professional

Survey-Grade UAS Development

Post-Secondary (Masters)

Suitability Analysis of NOAA GNSS

Tide Buoy Locations in the U.S

Exclusive Economic Zone Using ArcPy and GeoPandas Python Scripts for Custom Arc Toolboxes

Independent Studies (Bachelors)

Benthic Mapping of Delaware Bay

Geomorphology of Treefalls

Shipboard Studies

R/V Hugh R. Sharp

CERTIFICATIONS

IHO Category B Nautical Cartographer

FAA Part 107 Remote Pilot

Merchant Mariner Credential

PUBLICATIONS

Site Suitability Modeling for

Locating Tidal Buoys, ArcUser, 2022

ACCOMODATIONS

U.S. Dept. of Commerce Gold Medal

USCG Arctic Service Medal

Work Experience

Physical Scientist (NOAA)

Oct. 2016-Present

- *Creation and implementation of custom GIS analysis scripts and tools using Python, ArcPy, and other programming libraries; perform geospatial and workflow analysis*
- *Develop and implement UAS processing techniques and workflows for NOAA shoreline feature verification; Evaluate and manage UAS acquisition platforms*
- *Evaluation, troubleshooting, and field support of hydrographic acquisition and processing software in office and aboard NOAA platforms; CARIS & Hypack liaison*

Hydrographic Senior Survey Technician (NOAA)

Jun. 2015-Oct. 2016

May 2011-Sep. 2013

- *Hydrographer-In-Charge (HIC) qualified on ship/launch for data acquisition*
- *Managed acquisition, processing, analysis and charting of raster and vector hydrographic survey GIS products*

Project Surveyor (Gahagan & Bryant Associates)

Sep. 2013-May 2015

- *Acquisition, processing, analysis and QC of GIS raster and vector land/hydrographic survey products including VBES, MBES, SSS, GNSS base station and rover data.*
- *Managed Pre/Conditional/Post-dredge hydrographic and land surveys*

Cartographer (NOAA)

Feb. 2010-May 2011

- *Analysis, updating, and charting of hydrographic and remotely sensed GIS data for NOAA nautical chart suite*
- *Create raster charts and hydrographic data products from vector data.*

Physical Science Technician (NOAA)

Jan. 2007-Feb. 2010

- *Acquisition, processing, analysis and charting of raster and vector hydrographic survey GIS products including VBES, MBES, SSS, GNSS base station and rover data*
- *Member of mobile survey team responsible for emergency response surveys, survey equipment, boat, trucks, and trailers*

Related Experience

Kinematic GNSS Solutions for NOAA UAS Shoreline

May 2020-May 2022

NOAA GNSS Tide Buoy Suitability Modeling

Dec. 2021

Amazon Web Service Evaluation

Summer 2020

UAS Drone Operational Evaluation

July 2019

Hurricane Florence Response

Fall 2018

Hurricane Irma and Maria Response

Fall 2017

Channel Island AUV Surveys

May 2017

NOAA Arctic Mapping Mission

Summer 2015

Hurricane Sandy Beach Replenishment

Oct 2013-May 2015

BP Oil Spill

Sep 2010

US Airway Flight 1549 Response

Jan 2009

Skills

Software: Python, GeoPandas, SQL, ArcGIS Javascript API, ArcMap, ArcPro, Web AppBuilder, Survey123, QGIS, ENVI, CARIS, Hypack, POSPac, SonarPro, Fledermaus, Agisoft, Drone2Map, Microsoft Office (Word, Excel, Powerpoint)

Hardware: Kongsberg EM2040/3002/710/302, Reson 7125/8125, R2Sonic, Odom CV 100/200, Klein 3000/3900/5000, Edgetech 4200/4125, Remus 100/600, DJI Phantom4, HiTec Endurance, Brooks Ocean MVP, SeaCat 19+, Castaway, Trimble Base/Rover