

Aaron Portanova

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EDUCATION

Bridgewater State University, Bridgewater, MA

Drone (sUAS) Certificate Program

May 2026

Johns Hopkins University, Baltimore, MD

Master of Science, Geographic Information Systems

Graduated May 2023

Wheaton College, Norton, MA

Bachelor of Arts, Environmental Geoscience

Graduated May 2018

University of Canterbury, Christchurch, NZ

Proficiency of Science Certificate Program – Geology

Achieved July 2017

RELATED COURSEWORK

UAV Drone License Training, UAV Flying/Software/Modes, UAV 3D Mapping and Aerial Imaging, UAV Programming and Manufacturing, Remote Sensing, Programming in GIS, Spatial Analytics, GIS for Emergency Management, Web GIS, GeoApps, Cartography, Field Mapping

PROFESSIONAL EXPERIENCE

GIS Coordinator

December 2023 – Present

Engineering Department, Braintree, MA

- Manage the Town's GIS web systems and produce physical and digital maps
- Maintain and oversee tax parcel and utility network data maintenance
- Develop Python programs to manage utility data and perform routine analysis

GIS Volunteer & Board Member

May 2018 – Present

Land Preservation Society, Norton, MA

- Configure ArcGIS Online apps for data collection and trail mapping
- Create physical and digital conservation maps using ArcGIS Pro
- Analyze species habitats to support land acquisition

Optical Filter Coating Technician

February 2019 – October 2022

MKS Instruments, Franklin, MA

- Operated thin-film vacuum coating chambers for optical filter production
- Analyzed spectral outputs against design specifications
- Managed production scheduling for second and third shifts

SKILLS / INTERESTS

Hardware: Flying Drones, Building Computers, DIY

Software: ESRI ArcGIS Pro / Online, FME, Linux/Windows terminal, MS/Google Suite, Affinity/Photoshop

Virtual Platforms: Zoom, Teams, Google Meet

Hobbies: Photography, Swimming, Fly Tying/Fishing, Hiking, Cooking, Rubik's Cubes, LEGO sets