resume\_118@gmail.com  
833-453-5657

Spatial Analyst and UAV Flight Operator - Spatial Analysis Laboratory University of Vermont  
Burlington VT - Email me on Indeed: indeed.com/r/cff8e6fd4ed2a57f Authorized to work in the US for any employer  
WORK EXPERIENCE  
Spatial Analyst and UAV Flight Operator  
Spatial Analysis Laboratory University of Vermont - Burlington VT - 2015 to Present  
 Collaborated with a team of GIS analysts to manually correct thousands of square kilometers of digitized land cover and process terabytes of satellite imagery in ArcGIS  
 Conducted quality assessment of digitized land cover maps  
 Operated three types of Unmanned Aerial Vehicles (UAV) to acquire aerial imagery  
 Processed UAV aerial imagery to create orthophoto mosaics and digital terrain models  
 Compiled aerial imagery to build 3D models and calculate volume estimates of structures in QuickTerrain Modeler  
 Participated in the UAV disaster response efforts after the Amtrak train derailment in Northfield VT and in the aftermath of the February 2016 flooding of Route 2 in Middlesex VT  
GIS Analyst  
Chittenden County Regional Planning Commission - Winooski VT - 2015 to Present  
 Created managed and updated county-wide and town-wide databases for Chittenden County Developed a custom database for the storage and maintenance of traffic information  
 Utilized Python and SQL to expedite the processing of large databases  
 Updated the ESRI Community Basemap for Chittenden County  
 Cleaned the CCRPC Housing and Commercial Industrial database to extract accurate information Designed numerous county-wide and town-wide maps for town planners  
 Managed multiple projects and prioritized tasks to meet deadlines  
Summer Transportation Intern  
Spatial Analysis Laboratory University of Vermont - Winooski VT - 2015 to 2015  
 Employed GPS and GIS technologies to conduct inventories of transportation infrastructure such as pavement sidewalks culverts and signs  
 Compiled GPS and GIS field data to construct custom databases  
 Acted as Quality Control Project Leader for five town-wide inventories and managed the CCRPC online culvert database  
 Performed traffic counts and installed Automatic Traffic Recorders (ATR) to measure the volume and flow of traffic  
 Refined management skills while collaborating with a team to delegate tasks create schedules and meet project deadlines  
GIS Technician and Research Assistant  
Center for Remote Sensing Boston University - Boston MA - 2014 to 2015  
 Utilized the HiRISE image database to download satellite imagery of Gale Crater on Mars  
 Processed satellite imagery using the USGS Integrated Software for Imagers and Spectrometers  
   
 Analyzed and georeferenced images in ArcGIS  
 Operated the Shared Computing Cluster at Boston University to process images in QGIS and write a Bash script to create a mosaic of Gale Crater on Mars  
 Maintained daily contact with Senior Research Scientist Bradley Thomson to assess progress communicate goals and maximize performance  
GIS Technician and Research Assistant  
Center for Remote Sensing Boston University - Boston MA - 2013 to 2013  
 Wrote a proposal to NASA to use the HiRISE camera on-board the Mars Reconnaissance Orbiter to obtain imagery of Martian craters  
 Analyzed and georeferenced crater imagery using ArcGIS  
 Pioneered a new technique to extrapolate subsurface stratigraphy and take measurements of craters using MATLAB in combination with ArcGIS  
 Applied for and received funding from the Undergraduate Research Opportunities Program (UROP)  
 Met daily with Senior Research Scientist Bradley Thomson and participated in faculty meetings to communicate progress and goals  
EDUCATION  
B.A. in Geophysics and Planetary Science minor in Astronomy  
Boston University College of Arts and Sciences - Boston MA 2015  
School of the Museum of Fine Arts - Boston MA 2011 to 2012  
ADDITIONAL INFORMATION  
SKILLS  
 Proficient computer skills: ArcGIS QGIS MATLAB ENVI Quick Terrain Modeler eMotion Excel Access Postflight Terra 3D TerraSync PETRAPro TRAXPro  
 Programming experience using Python IDL R Bash and Boston University's Shared Computing Cluster  
 Independent and collaborative research and excellent written and verbal communication