Zachary Watson Bishop

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Education

University of Maryland College Park

B.S. Environmental Science and Policy
Concentration in Land Use
Graduated May 2020

Work Experience

GIS Analyst   Aug 2020 - Present

Prince George's County Department of Public Works and Transportation, Largo, MD
- Develop online public mapping applications to analyze vehicle crash trends
- Maintain an internal database of fatal crashes
- Write and design publications to promote roadway safety for all users
- Redesign and maintain the Vision Zero Prince George's website

Administrative Assistant   May 2019 – July 2020

Pando Alliance, Ellicott City, MD
- Conducted blower door tests to measure building performance
- Assisted with comprehensive energy audit and recommended building improvements for client energy savings
- Completed preliminary documentation for building energy modeling
- Sent statements through Quickbooks Online to clients. Tracked billing and project budgets

Stormwater Management Technician   Jan 2020 - May 2020

Maryland National Capital Parks and Planning Commission, College Park, MD,
- Assessed the condition of stormwater structures within Prince George's County
- Developed a comprehensive maintenance manual for stormwater structures including site-specific recommendations and standardized maintenance checklists

Lidar Mapping Intern   Feb 2019 - May 2019

Motivf Corporation, Arlington, VA
- Used lidar and National Wetland Inventory datasets to map forested wetlands near Elkton, VA, and created a presentation deliverable

Additional Experience

Solar Decathlon Thinktank   Jan 2020 - Present

University of Maryland, College Park, MD
- Develop a sustainability education module regarding living systems within the Solar Decathlon competition house
- Coauthor of NSF grant to fund additional sustainability open education resources

Ripple Education Team Deputy Leader   April 2020 - Present

Ripple, Gerlach, NV
- Develop a digital archive of research and user submitted content related to sustainability and native plants

Department of Energy Solar Decathlon Competition   Sep 2016 - Oct 2017

University of Maryland, College Park, MD, Denver, CO
- Developed specification sheets for residential plumbing fixtures
- Worked on all aspects of house construction
- Attended competition in Denver; design won 2nd place worldwide

Software Expertise

- ArcGIS suite and PCI Geomatica
- SQL, Python, and R statistical software
- Adobe Illustrator and Indesign
- Quickbooks Online