

# Laura Searles, P.E.

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## EDUCATION

**The Pennsylvania State University, University Park**

Schreyer Honors College and the College of Engineering  
Bachelor of Science, Civil Engineering, Environmental Focus  
Masters of Engineering, Environmental Engineering

**Dean's List All Semesters**

Cumulative GPA: 3.78  
Graduate GPA: 3.83  
Graduated: May 2017

*Environmental Engineering Minor and Watersheds and Water Resources Minor*

**PROFESSIONAL ENGINEER** Maryland Environmental Engineering PE License #57085 *January 20, 2021*

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## WORK EXPERIENCE

**MHG, PA (Macris, Hendricks, and Glascock)**

*Environmental Design Engineer*

**Montgomery Village, MD**

*(May 2018-Present)*

- Coordinated with project managers, clients, and coworkers to design ecologically sound stormwater management designs that complemented the proposed site development and surrounding native land. Utilized MDE policy of Environmental Site Design, TR-55, and TR-20 to design stormwater facilities to the Maximum Extent Practicable for Stormwater Management (SWM) Plans.
- Developed comprehensive designs for SWM, stormdrain, MDE Waterway Permits, and sediment and erosion controls (SESC) for multiple projects ranging in size from single family homes to 35-acre sites within Montgomery and Howard Counties, and the Cities of Rockville and Gaithersburg.
- Delineated floodplains and utilized Flowmaster to determine stream flows based on surrounding drainage.
- Performed construction observations; coordinated multiple parties to ensure approval by local jurisdiction.

**WBCM, LLC**

*Design Engineer*

**Towson, MD**

*(July 2017-April 2018)*

- Designed SWM, stormdrain, and SESC plans for multiple projects utilizing TR-55 and TR-20 for ESD.
- Developed stormwater requirements for Ward Farm, Holabird Manor, and Patterson Center.
- Designed utility profiles for stormdrain, water, force mains, and gas lines for the Stribling Project.
- Worked to meet Baltimore City, Calvert County, and MDE standards and requirements for design.

**US Army Corps of Engineers**

*Summer Intern in the USACE Capital Planning Division*

**Baltimore, MD**

*(June 2015-Aug. 2015)*

- Analyzed chemical data of nutrients in the Chesapeake Bay for the Baltimore Harbor Navigation Project.
- Researched fish and wildlife for the Anacostia, PG County Ecosystem Restoration Project.

**Research Projects and Teaching Assistant**

*Researcher and TA*

**Penn State**

*(April 2016-May 2017)*

- Teaching Assistant for Dr. Mansour Solaimanian CE 335: Engineering Soil Mechanics
- Authored research papers and presentations for multiple classes and Schreyer Honors College.

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## LEADERSHIP AND VOLUNTEER EXPERIENCE

**Volunteer Positions**

*(August 2016-Present)*

- *Voices for Children Montgomery* – CASA Volunteer (December 2020-Present)
- *Damascus United Methodist Church* – Church Council (January 2020-Present)
- *MHG Women's Group* – Coordinated donation to Gaithersburg HELP (July 2018-Present)
- *City of Gaithersburg Volleyball Coach* – 4<sup>th</sup> grade girls, high school women and men (2018- 2019)
- *Chi Epsilon Honors Fraternity at PSU* – President (Spring 2017), Vice President (Fall 2016)
- *Violin, Viola, Acting, and Voice* – Performer in local theater, at weddings, and in churches (2004-Present)

**Mercy Ships**

*Full-Time Volunteer Dining Room Worker on the Africa Mercy Ship*

*(May 2014-July 2014)*

- Stationed in the Republic of Congo and sailed to the Canary Islands for dry dock where work continued.
- Supervised the dining room for 3 weeks while the regular manager was on leave.

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## AWARDS AND HONORS

- Landis Memorial Scholarship for Excellence in Engineering (Fall 2016-Spring 2017)
- Chi Epsilon Dexter C. Jameson, Jr. National Scholarship (Spring 2016)
- Izaak Walton League Thomas W. Fisher Conservation Scholarship (Spring 2016)
- ASCE Central Pennsylvania Chapter Award for Excellence (Fall 2015)
- Penn State University Schreyer Honors Academic Excellence Scholarship (Fall 2013-Spring 2017)

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## SKILLS AND RELEVANT COURSES

- Public Speaking; AutoCAD Civil3D; OSHA Confined Space; Microsoft Excel, Word, & PowerPoint; ArcGIS
- Ecological Engineering, River Engineering, Integrated Project Management, Environmental Microbiology, Environmental Aquatic Chemistry, and Water Resources Engineering