

---

# ALEKSANDRA DIMOVA

---

Middletown, PA 17057 ♦ (717) 704-7722 ♦ abd5612@psu.edu  
<https://www.linkedin.com/in/aleksandra-dimova/>



---

## PROFESSIONAL SUMMARY

---

Committed graduate student with background in Mechanical Engineering and currently working towards degree in Environmental Engineering. Well versed in academic research, data collection, analysis and modelling.



---

## SKILLS

---

- ArcGIS
- Auto Cad
- Solid Works
- Hec - Ras
- **SWIMM**
- Academic Research
- Data Analysis
- Water and Soil Sampling
- Laboratory Work



---

## EDUCATION

---

**Master of Science:** Environmental Engineering, Expected in 12/2021  
**Pennsylvania State University** - Middletown, PA



- Overall GPA (4.0 scale): 3.95.
- Completed coursework in Open Channel Hydraulics, Environmental Risk Assessment, Chemical Fate and Transport, Aquatic Chemistry, Hydraulic Design, Applied Statistics and Sustainable Eng.

**Bachelor of Science:** Mechanical Engineering, 02/2017

**St. Cyril And Methodius University** - Skopje, Macedonia

- Major Focus: Energy and Environment.
- Overall GPA (10.00 scale): 8.5.
- Thesis: Small hydropower plants - implementation opportunities and simulations for development.

---

## WORK HISTORY

---

**Graduate Research Assistant**, 01/2021 to Current

**Penn State Harrisburg** – Middletown, PA

- Research topic: **Long - term** effectiveness of stream restoration practices.
- Participate in field team performing evaluation of riparian zones using RCE assessment protocol and water quality sampling of streams in Lancaster County, PA.
- **Land - use** analysis with ArcGIS for watersheds draining to the streams.
- Collected and analyzed samples in the laboratory for water and sediment quality and health of benthic macroinvertebrates.
- Conduct background research of Best Management Practices (BPMs), stream restoration and stormwater related projects.
- Provide engineering assistance in evaluating the best restoration practices, from floodplain restoration to engineered stabilization.
- Gave public presentations of the findings at the Annual Water Resource Conference (AWRA) 2020.

**Team Coordinator**, 12/2017 to 12/2019

**NGO Macedonian Green Center** – Skopje, Macedonia

- Opened and equipped co-working space for startups and micro/small businesses.
- Supervised 5-person team and managed workload to meet project objectives.
- Organized training workshops for local communities and schools regarding healthy environment as one of the key conditions for economic development.
- Completed project reports and budget costs for the authorizing agency.

**Student Assistant**, 02/2016 to 12/2016

**Faculty Of Mechanical Engineering** – Skopje, Macedonia

- Introduced students to principal concepts and methods of Fluid Mechanics.
- Documented attendance, grades and test scores.
- Prepared lesson materials and participated in curriculum implementation to provide efficient performance of the classes.
- Supported student learning objectives through personalized group assistance.

---

## CONFERENCES

---

- Long – term effectiveness of stream restoration activities in streams of Lancaster county - PA, 2020 Virtual Annual Water Resource Conference (November 9-11)
- Long – term effectiveness of stream restoration activities in Lititz Run Watershed, 2021 World Environmental and Water Resource Congress (May 23-26)