

Jyothi Elizabeth Vince

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OBJECTIVE STATEMENT

Civil Engineering student looking for research-oriented internship opportunities in the field of Water Resources and GIS.

EDUCATION

Rajiv Gandhi Institute of Technology (A. P. J. Abdul Kalam Technological University), Kerala, India

Bachelor of Technology (Honors) in Civil Engineering

Exp. 05/2022

GPA: 9.49/10.0

Relevant Coursework: Engineering Hydrology, Water Resources Engineering, Geomatics

INTERNSHIPS

Student Intern (Pollution Abatement of River Manimala) | Water Resources Department, Government of Kerala, India 11/2020 - 02/2021

- Surveyed the pollution outlet points, and effluent treatment systems in factories and hospitals along the banks of River Manimala and suggested solutions.
- Prepared the Detailed Project Report (DPR) under the direction of the National Green Tribunal (NGT) of the Government of India.

Student Intern | Irrigation Department, Government of Kerala, India

07/2019

- Hands-on experience at hydro-meteorological stations.
- Delineated and prepared a map of the watershed of River Periyar using ArcGIS and QGIS.

PUBLICATIONS

- Jyothi Elizabeth V., "Analysis of Spatial and Temporal Rainfall Variations in Meenachil Basin," *International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE)*, Vol. 6, April 2021.
- Jyothi Elizabeth V., "Analysis of Spatial and Temporal Rainfall Variations in Meenachil Basin," *International Conference on Civil, Architectural and Environmental Sciences (ICAES-21)*, March 2021.

PRESENTATIONS

- Jyothi Elizabeth V., "Hydro-Meteorological Approach to Design Flood Estimation: Case Studies," *Rajiv Gandhi Institute of Technology*, November 2021.
- Jyothi Elizabeth Vince, "Flood Susceptibility Mapping of Meenachil Basin, Kerala, India," *2021 Purdue Engineering Virtual Graduate Showcase*, October 2021.

RESEARCH & PROJECTS

- Landslide Prediction Model | Industry Institute Interactive Cell, RIT 09/2021 - Present
- Revisiting the Spillway Capacity using Design Flood | Major Project 08/2021 - Present
- Periyar River Basin: Kerala Floods 2018 | Self-Study 10/2020 - 12/2020

LEADERSHIP & ACHIEVEMENTS

- Inter-Collegiate Evangelical Union – President 07/2021 - Present
- Civil Engineering Association, RIT – Joint Secretary 08/2019 - Present
- Map published in the *2021 Esri User Conference Map Gallery* 06/2021
- 'Notable Participant' in the *IITB-ISRO-AICTE Mapathon* 12/2020

ADDITIONAL INFORMATION

Technical Skills: Software – ArcGIS Pro, QGIS, HEC-HMS, AutoCAD, STAAD Pro, MS Office.

Interests: Reading, creating maps, and playing the piano.

CERTIFICATIONS & WEBINARS

- GIS, Mapping, and Spatial Analysis (Specialization) on **Coursera** by the **University of Toronto**.
- Geographic Information System (GIS) (3 courses) on **Coursera** by the **University of California, Davis**.
- Geospatial Applications for Disaster Risk Management (Phase-II) by **CSSTEAP & UN-SPIDER**.
- Gain Competitive Advantage with High-Res Geospatial Data: AI, 3D and Ortho Imagery by **ASCE**.
- Optimized Hydrologic Aids Forecasts and Projections for Improved Decision-Making by **Esri**.
- Remote Sensing and Digital Image Processing of Satellite Data on **NPTEL** by **IIT Roorkee**.