

SHANTHI S

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CAREER OBJECTIVE

I am a highly motivated and ambitious civil engineering student, eager to contribute to challenging and innovative projects. Passionate about learning, problem-solving, and applying technical knowledge to deliver sustainable and impactful solutions.

EDUCATION

Degree/ Examination	Year of Passing	School/Institute	Board/University	Percentage%/ CGPA
B.E (CIVIL ENGINEERING)	2026	R.M.K. Engineering College	Anna University	9.55
Class XII	2022	St. Joseph Hr Sec. School	State Board	90.8
Class X	2020	Don Bosco Mat. School	State Board	80.6

PROJECT WORK

1. “Landuse Predictive Modelling of Emerging Corridors of Chennai Metropolitan Area”

| *Ongoing 7th semester* |

Spatio-temporal LULC change detection and predictive modelling of urban corridors in Chennai Metropolitan Area using Remote Sensing and GIS techniques.

2. “Comparative Study of Weighted Overlay and Frequency Ratio Methods For Improved Flood Hazard Mapping” | *during 6th semester (19 May 2025 – 14 July 2025)* |

Performed comparative flood hazard mapping using ArcGIS and Python applying Frequency Ratio and Weighted Overlay methods to evaluate spatial risk and demonstrate the objectivity of FR for reliable disaster planning.

3. “Wind Farm Site Selection Using GIS” | *during 5th semester (Sep 2024 - Nov 2024)* |

Optimal site identification for wind farms in **Tamil Nadu** using **GIS and Weighted Overlay Analysis**.

INTERNSHIPS

1. **IIT Madras (Flood Hazard Mapping using GIS & Python)** | *19 May 2025 – 14 July 2025* flood-prone zone identification using Frequency Ratio (FR) and geospatial analysis, gaining hands-on experience with spatial datasets, raster reclassification, Python, and Google Earth Engine.
2. **Civil AutoCAD, US SOFT Authorized Training Centre** | *1 June 2024 – 1 July 2024* Gained hands-on exposure to advanced design techniques in AutoCAD and refined technical skills by creating precise civil engineering drawings for real-world applications.

CONFERENCE

1. **National Conference on Recent Advances and Innovations in Civil Engineering (RAICE – 2024), Velammal Engineering College, Chennai** | *April 17, 2024* |
Presented a paper on “SLAM Integrated with UAV” highlighting its applications in civil engineering for autonomous navigation and 3D mapping.
2. **National Conference on Recent Advancement in Agricultural and Civil Engineering (RAACE – 2025), Kongunadu College of Engineering and Technology, Trichy** | *March 15, 2025* |
Presented a paper on “Wind Farm Site Selection Using GIS” showcasing spatial analysis techniques for optimal renewable energy planning.

AREA OF INTEREST

- Foundation engineering
- Concrete technology
- Remote sensing and GIS
- Design and visualization using Building Information Modelling.

SOFTWARE PROFICIENCY

- Technical Software : AutoCAD, STAAD.Pro, ArcGIS Pro, Revit, QGIS, Google Earth Engine
- Programming : Python(Basics), C(Basics)
- Office Packages : Microsoft Office

ACHIEVEMENTS

- Secured **1st place** in the Intra-Department Paper Presentation competition during second year on **SLAM Integrated with UAV** at R.M.K. Engineering College
- Secured **2nd place** in the Intra-Department Project demonstration competition during third year on **Wind Farm Site Selection Using GIS** at R.M.K. Engineering College
- Awarded ₹3500 worth of vouchers for academic excellence in both 2nd and 3rd year of undergraduate studies.
- Received ₹10000 of Scholarship on both 2nd and 3rd year of undergraduate studies.

CERTIFICATIONS

➤ AISC-DTS Certificate

1. Detailer Training Series

➤ COURSERA Certificates

1. Advanced Mapping with ArcGIS
2. BIM Fundamentals For Engineers
3. Basics of Python

➤ Esri Mooc Certificate

1. ArcGIS Online Basics

➤ NPTEL certification

1. Advanced Topics In Science And Technology of Concrete
2. GPS Surveying
3. Soft Skill Development

(Feb-Mar 2024(4- week course))

(Jul-Aug 2023 (8-week course))

(Jan-Mar 2023 (8-week course))

SOFT SKILLS

- Quick learner
- Team Building
- Leadership Quality
- Adaptability and Flexibility

PERSONAL DETAILS

- Father's Name : M Shanmugam
- Date of Birth : 12th March 2005
- Linguistic Proficiency: Tamil, English.

REFERENCE

Name : Dr. A. Hemamathi

Designation : Associate Professor

Institution: R.M.K.Engineering College

PH.No : 9840476978

Email id : ahm.ce@rmkec.ac.in

DECLARATION

I, SHANTHI, do hereby confirm that the information given above is true to the best of my knowledge.

Date:

Place: Chennai

(SHANTHI)