

# ASWIN K

## Civil Engineer

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### PROFILE

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Detail-oriented and proactive Civil Engineering graduate with practical experience in construction site operations, surveying techniques, and technical documentation. Currently serving as a Project Assistant at NIT Calicut, contributing to large-scale environmental and infrastructure initiatives. Proficient in AutoCAD, ArcGIS, estimation, and fieldwork, with prior experience at CWRDM preparing construction models and cost estimates. Skilled in interpreting technical drawings, coordinating multidisciplinary teams, and managing on-site activities to ensure timely and quality-driven project execution. Passionate about leveraging engineering expertise to solve real-world challenges, with a keen interest in sustainable and efficient construction practices.

### SKILLS

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AutoCAD	ArcGIS
Site Supervision	Construction Estimation
MS Excel for Estimations & Reporting	Python Programming

### PROFESSIONAL EXPERIENCE

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**Project Assisstant**, National Institute of Technology ☈ 06/2024 – present  
Studies on "Condition Assessment and Management Plan for the Periyar River Basin"-Ministry of Jal Shakti, Govt. of India research project entitled .

- Assisted in data collection, analysis, and report preparation related to river basin management.
- Mapped the Periyar River, tributaries, ecological zones, and geomorphic features using ArcGIS and QGIS.
- Created thematic GIS layers for pollution, encroachments, water diversions, and lithological profiles.
- Analyzed catchment, demographic, and resource use data through spatial overlays.
- Digitized river cross-sections and flow points for hydraulic modelling.
- Water Quality Testing Experience : Conducted titration analysis (acidity, alkalinity, chloride, hardness, calcium), assessed biological parameters (coliform detection), and measured physical properties (pH, turbidity).
- Strengthened research, analytical, and technical skills while contributing to environmental assessment studies.

**Technical Assistant**, National Institute of Technology ☈ 08/2022 – 03/2024  
Calicut, India

- Supported civil engineering lab sessions and fieldwork training on Total Station, Theodolite, and Chain Surveying, assisting students in mastering practical surveying techniques.
- Prepared and reviewed survey drawings and site plans using AutoCAD, ensuring accuracy and compliance with field data.
- Utilized GIS to process spatial data for land analysis and mapping, integrating modern GIS tools into traditional surveying practices.
- Provided technical support for academic and research projects, fostering effective teamwork and enhancing communication skills within multidisciplinary teams.

- Contributed to streamlining fieldwork processes, resulting in a 20% improvement in surveying efficiency through optimized workflows and digital documentation.

### **Technical Apprentice,**

Center for Water Resources Development and Management ☰

07/2017 – 07/2018

Calicut, India

- Worked in the Construction and Management Wing, supporting various civil engineering activities including site supervision for small-scale infrastructure and maintenance works.
- Prepared 2D construction drawings using AutoCAD, ensuring accuracy in layouts for structural and utility components.
- Assisted in quantity estimation and costing for small engineering projects such as retaining walls, culverts, and water supply structures using MS Excel and MS Word, which improved documentation efficiency by 40%.
- Collaborated with senior engineers to verify site measurements and material requirements, contributing to effective execution and cost control on construction sites.

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## **EDUCATION**

**B.TECH IN CIVIL ENGINEERING,** APJ Abdul Kalam Technological University ☰

2019 – 2022

Mark : 66%

Kannur, India

**DIPLOMA IN CIVIL ENGINEERING,** Technical Education Kerala ☰

2014 – 2017

MARK : 73.15%

Calicut, India

**HIGHER SECONDARY,** HSS Chennamangallur ☰

2012 – 2014

MARK : 76%

Calicut, India

**SSLC,** GHSS Neeleswaram ☰

2012

MARK : 90%

Calicut, India

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## **PROJECTS**

**Optimization of replacement and transmission in water distribution pipe**

06/2021 – 05/2022

**network using EPANET software.,** Collage of Engineering Thalassery

**Lecture Theatre Complex Govt. Medical Collage,**

08/2016 – 05/2017

Kerala govt. polytechnic collage

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## **CERTIFICATES**

**Foundation course in Civil CAD** ☰

**Industrial Training** ☰

Auto desk Auto CAD2016 - 2016

White Fort Construction & Engineers Pvt. Ltd.

25/08/2016 To 31/08/2016

**Industrial Training** ☰

ASTER CC Pvt. Ltd.

**Completing the Live workshop on ChatGPT & AI**

10/09/2021 To 16/09/2021

**Tools** ☰

Skill Nation - 2024

**Python Django Full Stack Web Development** ☰

**ArcGIS Pro Essential Training** ☰

Luminar Technolab, Cochin

LinkedIn Learning — Jul 08, 2025

01/03/2024 - 30/09/2024

Duration: 3 hours 47 minutes.

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## **LANGUAGES**

ENGLISH

MALAYALAM

HINDI

TAMIL