

AAHRTHY
Structural Engineer

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Objective:

Goal-driven and creative Structural Engineer with 6+ years experience in project management, teaching and research, seeking a career that place me in a challenging position and learning oriented environment to develop technical and inter personal skills, contributing to the growth of the organisation.

Work Experience:

INSTITUTION	DESIGNATION	ROLE	EXPERIENCE
HARISH ENTERPRISES, CHENNAI, INDIA	Project Engineer & Coordinator	Coordinated in designing interiors of residential and commercial buildings.	3 Years 4 months (06.11.17 to 26.02.21)
CSIR-SERC (Structural Engineering Research Centre), CHENNAI, INDIA	Junior Research Fellow	Research and study on Textile Reinforced Concrete (TRC)	2 Years (28.10.15 to 31.10.17)
DHANALAKSHMI SRINIVASAN College of Engg. & Technology, CHENNAI, INDIA	Assistant Professor	Handled Civil Engineering courses and obtained above 75% results.	4 months (24.06.15 to 16.10.15)
SACS MAVMM Engineering College MADURAI, INDIA	Assistant Professor	Handled Civil Engineering courses and obtained above 80% results.	1 Year (27.07.12 to 02.08.13)

Educational Qualification:

COURSE	INSTITUTION	BOARD / UNIVERSITY	YEAR OF PASSING	PERCENTAGE
M.TECH STRUCTURAL ENGINEERING	B.S.Abdur Rahman University, CHENNAI	B.S.Abdur Rahman University, CHENNAI	2015	93.4
B.E CIVIL ENGINEERING	Rathinavel Subramaniam College of Engineering & Technology (R.V.S.CET), Dindigul.	Anna University CHENNAI	2012	83.1
HSC(XII)	Asian Matriculation and Higher Secondary School, Melur, Madurai.	State board	2008	87.41
SSLC(X)	Subramania Bharathi Matriculation and Higher Secondary School, Melur, Madurai.	Matriculation	2006	86.54

Roles & Responsibilities:

HARISH ENTERPRISES

- Managed a Design Team as a Project coordinator.
- Checked AutoCAD drawings prepared by drafting team for plan approval.
- Validated the design provided from the design team.
- Furnished manual design calculation and design report whenever required.
- Attended meetings with clients regarding design and site activities.
- Resolved queries for clarification.
- Assisted the site team for proper project execution.

Projects worked:

- ✓ S+5 Residential apartment of 1 lakh Sq.ft area at TADA.
- ✓ Structural Steel Support System for Fire Protection Services at ISRO Propulsion Centre, Mahendragiri, Tirunelveli District, Tamil Nadu.
- ✓ Structural Inspection and consultation services for MERIDIAN Hospital, Kolathur behalf of WALFS Infrastructures Pvt Ltd & Technical consultants.
- ✓ Structural Inspection and consultation Services for Tank Manufacturing Machine Foundations, at HVF, Avadi Chennai & TATA Steel Plant, Jamshedpur Jharkhand. Behalf of Empire Machine Tools PVT Limited.
- ✓ Structural Steel Industrial Shed designs and mezzanine floor design at GULF Oil Lubricants, Ennore.
- ✓ Structural Consultation for VELAMMAL School Paruthipattu.
- ✓ Civil Construction in and around Tamilnadu for minor and major structures.

CSIR-SERC (STRUCTURAL ENGINEERING RESEARCH CENTRE)

- Evaluated the mix properties of different proportions of special concrete and arrived at an optimised mix.
- Studied the properties of Textile Reinforced Concrete (TRC) using different types and different layers of textiles.
- Proposed different applications of TRC such as beam strengthening, column strengthening, canal lining, barriers, aesthetic slender structures, thin walls, tiles, etc.
- Created model structures to prove its efficiency.
- Tested TRC slabs, beams and barrier under static and impact load varying the number of textile layers used.
- Proposed optimum number of textile layers for different applications after analysing the responses from the tests conducted.
- Constructed a TRC Toilet using ready to build TRC structural elements for Swatch Bharath Campaign.
- Suggested TRC barriers as a replacement for concrete barriers.
- Crash tested different connection types in TRC barriers under impact loading.
- Prepared thesis for the works done.
- Published papers on reputed journals.
- Attended workshops, seminars related to the project.

DHANALAKSHMI SRINIVASAN College of Engg. & Technology

- Handled Structural Analysis, Highway Engineering, Environmental studies.
- Prepared notes according to the syllabus.
- Attended Faculty development programs.
- Trained students in lab experiments.
- Framed question papers for class tests, internal tests.

SACS MAVMM Engineering College MADURAI, INDIA

- Handled Building materials, Structural Analysis, Highway Engineering, Environmental studies.
- Prepared notes according to the syllabus.
- Attended Faculty development programs.
- Trained students in lab experiments.
- Framed question papers for class tests, internal tests.
- Supported in organizing symposiums and cultural.
- Supervised semester exams.
- Corrected University exam papers

Project works:

M.Tech: Fatigue performance of plain concrete

The fatigue behavior of plain concrete was studied using notched beams.

B.E: Ground improvement using Vibro-stone Columns and analysis of Substation Building

To construct a structure over weak soil, ground was improved using vibrostone columns and a substation building which was constructed over the improved soil was analysed.

Computer Skills

- AutoCAD, AutoCAD 3D, ETABS, Abaqus, ATENA-Gid.
- Ms-Word, Excel, Powerpoint

Papers Published:

- Investigations on the influence of matrix and textile on the response of textile reinforced concrete slabs under impact loading (2018). Smitha Gopinath, Amar Prakash, **R Aahrthy** & M Bhavani Harish, M.Sādhanā. DOI: 10.1007/s12046-018-0933-8.
- Velocity Impact Response and Failure Assessment of Textile Reinforced Concrete Slabs (2017). I Subashini, Smitha Gopinath & **R Aahrthy**. CMC- Tech Science Press, Vol.53, No.4, pp.291-306.
- Performance Evaluation of Reinforced Concrete Barrier-An Indian Context (2016). **R Aahrthy**, Smitha Gopinath & Amar Prakash. International Conference on Advances in Civil Engineering and Sustainable Construction, SRM University, Ramapuram, Chennai.
- Experimental and Numerical study on plain concrete prisms under fatigue loading (2015). **R Aahrthy**, Nawal Kishor Banjara, M.S. Haji Sheik Mohammed. National Conference on Advancements and Challenges in Civil Engineering, Valliammai Engineering College, Kanchipuram.


Personal Details:

Name : Aahrthy
Husband's name : Lokesh Kannan
Gender : Female
Date of birth : 12.06.1991
Nationality : Indian
Marital Status : Married
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Declaration:

I hereby confirm that all the facts stated above are accurate to the best of my belief. I take full responsibility for the correctness of the said information.

Place : Bahrain.


(AAHRTHY)