

SHUBHAM RAJ

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Education

Indian Institute of Technology (IIT) Madras M.S. + Ph.D., BTCM, Civil Engineering, CGPA: 9.55/10	Chennai, India Ongoing
National Institute of Technology (NIT) Agartala B.Tech., Civil Engineering, CGPA: 9.04/10	Tripura, India May 2017
Paramount Academy AISSCE, Score: 81.60 %	Bihar, India May 2012
D.A.V. Public School AISSE, CGPA: 9.8/10	Bihar, India May 2010

Areas of Interest

1. Foam concrete
2. Alternative and sustainable binder system
3. Industrial waste utilization
4. Low-cost housing technology

Experience

1. Presently working as **Direct Ph.D. Research Scholar** in Building Technology and Construction Management Division (BTCM), Department of Civil Engineering, IIT Madras
2. Worked as **Graduate Engineer Trainee** in Civil & Infra department, Vedanta Ltd. at Jharsuguda, Orissa. (August – December 2017)
3. Worked as **Research Intern** in 12th Five Year Plan Project on “Utilization of Waste Materials in Road Construction” under the guidance of Dr. Vasant G Havanagi, Professor & Senior Principal Scientist at CSIR–CRRI, New Delhi, India. (May–June 2016)
4. Completed **Industrial Training** in NCC Ltd. at NIT Agartala Tagore Hostel project. (Oct. 2015)
5. Completed **Vocational Training** on building projects, civil maintenance and safety works at ALTTC, BSNL, Ghaziabad, U.P., India. (May-June 2014)

Publications

1. Tripura, D.D., **Raj, S.**, Mohammad, S. and Das, R. (2018) “Suitability of Recycled Aggregate as a Replacement for Natural Aggregate in construction”, *DSCS 2018, ACI Special Publication*, Vol. 326, pp. 37.1-37.10, Moscow, Russia. (Indexed in Scopus)
2. **Raj, S.**, Rai, A.K. and Havanagi, V.G. (2018) “Suitability of stabilized copper slag and fly ash mix for road construction” *World Journal of Engineering*, Vol. 15 Issue: 3, pp. 336-344. (Indexed in Scopus, ESCI)
3. **Raj, S.**, Mohammad, S., Das, R. and Saha, S. (2017) "Coconut fibre-reinforced cement-stabilized rammed earth blocks", *World Journal of Engineering*, Vol. 14 Issue: 3, pp. 208-216. (Indexed in Scopus, ESCI)
4. **Raj, S.**, Mohammad, S., Das, R., Saha, S. and Tripura, D.D. (2016) " Low cost housing models for urban and rural areas using rammed earth technique”, *ResearchGate*, Technical Report (1). DOI: 10.13140/RG.2.2.22676.50567

Awards and Achievements

1. Secured **2nd position in National Design Competition** organized by Govt. of U.P., India. The project on low cost housing for rural areas using rammed earth technology was selected as the second-best design by the government in 2016
2. Selected as **Research Intern** at CSIR - Central Road Research Institute, New Delhi in 2016
3. Won the **Best Fabrication Award in Bridge Design Challenge** conducted in association with Technex'15, IIT (BHU) organized by Civil Simplified on 7th-8th Feb. 2015 at NIT Agartala
4. Awarded a full course on Data Analysis and Business Intelligence in **Dream to Learn Scholarship** by twenty19.com

Relevant Courses

CE5010 – Modern Construction Materials; CE5014 – Sustainable Construction; CE5120 – Maintenance and Rehabilitation of Constructed Facilities; CE5337 – Non-destructive Evaluation of Structures; CE5950 – Characterization of Construction Materials; CE6110 – Advanced Concrete Technology; CE6780 – Advanced Mechanics of Structures, MM5020 – Modern Techniques of Material Characterization; CE5090 – Construction Materials Lab; MM5028 – Advanced Material Characterization Lab

Skills and Positions of Responsibilities

1. **Languages:** English, Hindi
2. Worked as NIRMAAN Core in Civil Engineering Association (CEA) at IIT Madras
3. Served as the **Convener** of The Institution of Engineers India (IEI) students' chapter, Civil Engineering at NIT Agartala from Oct. 2015 till May 2017
4. Served as **Editor** of college e-magazine "The Fifth Dimension" from Aug. 2013 till Oct. 2016
5. Served as **Management Head** of Asimov NIT Agartala Robotics Club from Sep. 2015 till Aug. 2016
6. **Independently reviewed research articles for SCI indexed journals**, 'Advances in civil engineering' and 'Mathematical problems in engineering'

Professional Memberships

1. Institution of Engineers India (IEI): **AMIE (AM1775572)**
2. American Society of Civil Engineers (ASCE): **S.M. ASCE (10398137)**
3. American Concrete Institute (ACI): Student Member (**1592838**)
4. Institution of Civil Engineers (ICE) UK: Student Member (**73167585**)
5. The International Federation for Structural Concrete – FIB: Student Member (**11097**)