

## RÉSUMÉ

**DEGREE** : Master of Technology  
**BRANCH** : Civil Engineering.



### PERSONAL DETAILS

**NAME** : S.SHANMUGARAJ  
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Karur (Dist.),  
India. PIN-639117  
**Email:** shanmugaraj1994@gmail.com  
**Linkedin:** <https://www.linkedin.com/in/shanmugaraj-s-936270aa>  
**DATE OF BIRTH** : 14-07-1994      **AGE:** 26      **SEX:** Male  
**FATHER'S NAME** : Mr.S.Senthilnathan  
**MOTHER TONGUE** : Tamil  
**LANGUAGES** : **Read:** English, Tamil  
                         **Write:** English, Tamil  
                         **Speak:** English, Tamil

### ACADEMIC RECORD

Course	Institution	Board/ University	Year of Completion	CGPA/ Marks %
M.Tech	Indian Institute of Technology Madras, Chennai	IITM	2019	9.30
B.E	P.S.G. College of Technology, Coimbatore.	Anna University	2015	9.09
XII	TNPL Matric Higher Secondary School, Kagithapuram, Karur	Tamilnadu State board	2011	95.33%
X	TNPL Matric Higher Secondary School, Kagithapuram, Karur	Matric	2009	94.60%

### PROFESSIONAL EXPERIENCE / INTERNSHIP

<b>Assistant Manager Civil</b>  <b>L&amp;T Constructions, Madhya Pradesh</b> (May 19' to May 20')	<ul style="list-style-type: none"><li>▪ <b>Assistant Planning Manager for 1200 Cr. EPC Project</b></li><li>▪ Took single point responsibility of <b>Planning, Monitoring and Resourse Management for all the civil activities which includes construction of Four Pump Houses of height 30m and Four Delivery Chambers.</b></li><li>▪ Stakeholders management, Document approvals, and Asset management.</li></ul>
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<p><b>Senior Engineer</b></p> <p><b>L&amp;T Constructions,</b> <b>Chennai</b> (June 15' to July 17')</p>	<ul style="list-style-type: none"> <li>▪ <b>2 years</b> experience as <b>project coordinator for 8 EPC Projects</b></li> <li>▪ Coordinated the procurement activities, construction planning, monitoring and vendor payments of all the <b>eight projects simultaneously</b></li> <li>▪ <b>Site exposure-</b> Two months deputation as a site <b>planning engineer</b> at Odisha lift irrigation project and worked as a <b>site execution engineer</b> as a part of internship program at Kanpur Water Carrier System project for two months</li> </ul>
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### ACADEMIC PROJECTS

<p><b>M Tech.</b></p> <p>(July 17' to May 19')</p>	<p><b>Main project   Automation in construction progress monitoring of pipeline laying activity</b></p> <ul style="list-style-type: none"> <li>▪ Developed a cost-effective, user-friendly framework (application) to monitor the progress of pipeline laying activity using Computer Vision (<b>Artificial Intelligence</b>) on site images taken in smartphone.</li> </ul> <p><b>Term project   Lean Construction</b></p> <ul style="list-style-type: none"> <li>▪ Did a work sampling, VSM, CBC analysis and process chart study of various construction activities in CMRL site</li> </ul> <p><b>Term project   Construction software lab</b></p> <ul style="list-style-type: none"> <li>▪ Delivered BIM models using Revit and Navisworks for 'Integrated project delivery- global project' in collaboration with students of the University of Washington</li> </ul>
<p><b>B Tech.</b></p> <p>(July 11' to May 15')</p>	<p><b>Final Project   Improving the efficiency of Kunniyamuthur canal using geomembranes</b></p> <ul style="list-style-type: none"> <li>▪ Studied the actual condition of Kunniyamuthur canal in Coimbatore, India and proposed to use geomembrane lining reinforcement of the canal instead of completely renovating it.</li> </ul> <p><b>Mini Project   Compressive strength of concrete cylinders wrapped with glass fibre reinforced polymers</b></p> <ul style="list-style-type: none"> <li>▪ Study and comparison of compressive strengths of normal concrete cylinders and concrete cylinders wrapped with glass fibres</li> </ul> <p><b>In- Plant Training   TNPL</b></p> <ul style="list-style-type: none"> <li>▪ Study on the construction of TNPL CBSE school and working of the wastewater treatment plant</li> </ul> <p><b>Industrial Field Training   Coimbatore</b></p> <ul style="list-style-type: none"> <li>▪ Observation of Reverse Osmosis Plant, Paver Block Manufacturing Unit, RMC plant, Wastewater treatment plant, Railway station working, Brick manufacturing plant</li> </ul>

### RELEVANT COURSE WORKS (B. TECH & M.TECH)

▪ Energy efficient & Sustainable construction	▪ Advanced concrete technology	▪ Construction contracts	▪ Repair and Rehabilitation of concrete structures
▪ Smart Building and Automation	▪ Geographic Information System	▪ Construction Economics and Finance	▪ Building materials lab
▪ CAD in Civil Engineering	▪ Lean project delivery	▪ Construction planning and control	▪ Construction software & Materials lab

### SKILLS

**Design** | AutoCAD, STAAD Pro; **Construction Project Management** | Navisworks, MSP, Vico; **Coding** | C, C++, VB.NET, VBA, Python; **3D Modelling/Rendering** | Revit, Sketchup, Tekla, Dynamo, Context capture, Lumen RT

### POSITIONS OF RESPONSIBILITY

<b>Tutoring</b>	<b>Teaching Assistantship   Repair and Rehabilitation of concrete structures</b> <ul style="list-style-type: none"> <li>▪ Overall coordinator for student's term project, correcting papers and maintaining attendance and marksheets</li> <li>▪ Assisted <b>15+ students</b> in conducting experiments and writing the thesis for their projects</li> </ul> <b>Teaching Assistantship   Machine Learning in construction</b> <ul style="list-style-type: none"> <li>▪ Assisted <b>50+ students</b> in working on their projects, correcting papers and maintaining mark sheets</li> </ul>
<b>Project Head</b>	<b>Leadership   Developing GET   L&amp;T Construction</b> <ul style="list-style-type: none"> <li>▪ Managed and mentored two members for 1 year in the areas of planning, procurement and site coordination for L&amp;T construction projects</li> </ul>

### CO-CURRICULAR/EXTRA-CURRICULAR ACTIVITIES

<b>Coordinator/Volunteer</b>	<b>Conference coordinator   IGLC 2018 @ IIT Madras</b> Worked as a coordinator/volunteer for conducting <b>International Group of Lean Construction conference</b> held at Chennai in the year <b>2018</b>
<b>Workshop</b>	<b>Attended Workshop   CIT 2013 @ Coimbatore</b> Attended a one month workshop on 'Construction planning, techniques and management – a new paradigm'

### DECLARATION

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

DATE:

SIGNATURE: \_\_\_\_\_

PLACE:

[SHANMUGARAJ .S]