

ATHARVA RAJESH KULKARNI

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Civil engineer focused on structural health monitoring, parametric modeling, and resilient infrastructure, with international experience across academia and industry.

EXPERIENCE

Project Research Assistant Indian Institute of Technology Bombay , Mumbai Design, optimization and tests for bamboo telecommunication towers.	Apr 2022 – Jul 2023
Senior Analyst Hone Structural Health Monitoring , Mumbai Custom tools for vibration analysis focussed on axially tensioned members.	Jul 2021 – Oct 2023
Structural Design Engineer Nandadeep Designers , Aurangabad Design of masonry roofs while improving constructability through geometric simplification.	Jul 2021 – Apr 2022

NOTABLE PROJECTS

- SHM of Steel Gantry.** Monitoring and assessment of gantry girders at Maruti Suzuki.
- TMS Form Finding.** Grasshopper plug-in for tensile membrane structure optimization.
- Wire Arc Additive Manufacturing.** Volunteered at [IndexLab](#) for Wire Arc Additive Manufacturing studies.

PUBLICATION

A R Kulkarni and V V Nalawade, “Construction and Analysis of Brick Masonry Dome in Lime Mortar without Form Work”, Journal of Ceramics and Concrete Sciences (e-ISSN: 2582-1938), vol. 4, no. 3, pp. 23–29, Dec. 2019, doi: 10.5281/zenodo.3570369.

SKILLS

Technical	Structural Health Monitoring, Parametric design, Masonry and bamboo structures
Software	Ansys MAPDL, Abaqus, Grasshopper, Staad.Pro, AutoCAD, ArcGIS, OZone, Python, Matlab
Soft	Problem-solving, Communication, Teamwork
Languages	English, Hindi, Marathi, <i>basic German and Italian</i>

EDUCATION

MSc, Civil Engineering with Risk Mitigation <i>Politecnico di Milano</i> Key Coursework: Structural Dynamics, Retrofitting, Residual Capacity Analysis	Pursuing
BTech, Civil Engineering (CGPA 8.2) <i>Dr BATU, Maharashtra</i>	Jul 2021

REFERENCES

- Prof Siddhartha Ghosh** (IIT Bombay): sghosh@civil.iitb.ac.in
- Dr Mahesh Varma** (Nandadeep): mnvarma@nandadeep.org
- Bhumik Halani** (Hone SHM): admin@honeshm.com