

Kishore S. Shenoy

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Krishna, KPRA-35 Block A, 2nd Cross,
Ambalam Road, Koonamthai, Edappally,
Kochi, Kerala, India 682024

EDUCATION

Indian Institute of Technology Madras, India

CGPA: 9.36/10

Bachelor of Technology in Civil Engineering

2017 - 2021

Relevant Courses *Discrete Mathematics for Computer Science | Basic Graph Theory | Symbolic Logic*
Human Factors in Design | Form and Aesthetics in Design

Shibaura Institute of Technology, Tokyo, Japan

CGPA: 9.13/10

Exchange Program in Planning, Architecture and Environmental Systems

2020

Relevant Courses *Spatial Modeling and Analysis | Architectural Design Studio | Interaction Design*
Architectural Planning and Design | Assistive Technology Design | Color Theory

RESEARCH EXPERIENCE

Computational Origami Structures | SENIOR THESIS

2020 - 2021

Indian Institute of Technology Madras, India

- Created Miura-like structures of tunable Gaussian curvature 3D surfaces. Through multivariate optimization, these surfaces do not hinder the designer's artistic freedom.
- Presented at IASS International Conference on Spatial Structures 2020/21, Surrey, UK.

Quantum Computation | RESEARCH INTERN

2018 - 2020

Indian Institute of Science Education and Research Kolkata, India

- Developed a novel algorithm to encode images into quantum bits with an exponential advantage over the classical computers on the number of [qu]bits required.
- Tuned and Implemented a Q-Reinforcement Learning Algorithm for cloning qubits on IBM Q Platform with a multifold advantage over Tomography in limited resource situations [see in publications].

PUBLICATIONS

Madabhushi, S. C., Shenoy, K. S., Pratapa, P. P. [Generating developable and rigidly foldable origami surfaces with arbitrary Gaussian curvatures](#). Proceedings of the International Conference on Spatial Structures 2020/21 (IASS2020/21-Surrey7), UK. 2021

Shenoy, K. S., Sheth, D. Y., Behera, B. K. And Panigrahi, P. K. [Demonstration of a measurement-based adaptation protocol with quantum reinforcement learning on the IBM Q experience platform](#). Quantum Information Processing, Springer. 2020

MY OPEN SOURCE PROJECTS

Generative Modelling | mobius.ramdon.team

- Design code scripts for parametric modelling, constraint satisfying, and procedural modelling using the generative design tool Möbius Modeller.

Freeform Gradients | draggy.ramdon.team

- A GPU-accelerated design tool that uses Laurent polynomials and shaders to create smooth and efficient spatial (2D) gradients with rich, vibrant colors.

Delaunay Colours | triangles.ramdon.team

- Designed and developed a design tool in Python that uses Delaunay triangulation and bivariate spline interpolation to create gradient effects with dominant and recessive color points.

DESIGN PROJECTS

AMP Relax! | ARCHITECTURAL DESIGN | kichappa.github.io/#/p#amp-relax

- Architectural design of a Student Activity Centre with considerations for spaces with various levels of social interaction. At its core is an amphitheatre that is visible from all floors.

Glass Eye | PRODUCT DESIGN

- Design concept of a spectacle for the visually impaired/blind to allow them to function in a social setting without difficulties.
- Using image recognition, gyroscope, and electromagnetic braille gloves, it identifies people approaching the user, informs information through braille, helps align in the right direction while moving, and provides emergency alerts that could help them stay safe.

ACHIEVEMENTS

Kalidas Madhavpeddi Scholarship 2021

- Sole awardee for the academic year in IIT Madras for exemplary performance in leadership, teamwork, and academics.

NIUS¹ Physics 15 2018

- Participated at the Physics Camp conducted by HBCSE, TIFR.
- Qualified for research in Quantum Computation.

Raffles Institution Maths Challenge 2013 | Rank 7

NSEP² 2017 | Top 1% in state of Kerala, India.

PROFESSIONAL EXPERIENCE

Tata Projects Limited | PROJECT MANAGEMENT (CONSTRUCTION)

Sept 2021 - Aug 2022

- Worked in commercial, planning, and execution teams of a \$180M solar factor building EPC project and the costing, billing, and quantity survey team of a \$260M metro rail EPC project.
- Implemented a probabilistic inventory management system, deployed a mobile app for digital data collection, and optimized timeline per resource availability.

Wellnexus Technologies Private Ltd. | DESIGN INTERN

June - Aug, 2020

Graphic and Interaction Design (UI & UX)

- Ideated and designed the user workflow, wireframes, theme, UX and aesthetics of the UI.

SKILLS AND OTHER INTERESTING THINGS!

CO-CURRICULAR ACTIVITIES AT IIT MADRAS

Mentor at Avanti Fellows 2017

- Mentored five high school students to appear in IITJEE Advanced Examination and helped them secure admissions into various prestigious institutions across India.

Graphic Designer at Team Abhiyaan 2017 & Team RSD 2017

Visual Effects Designer & Animator at Saarang 2018 & Shaastra 2018

Table Tennis Player at National Sports Organisation 2017

HOBBIES

GeoGuessr, Architecture, Meditation, Gaming, Piloting Drones, Football.

SKILLS & SOFTWARES

2D/3D Design: Photoshop, Illustrator, InDesign, After Effects, Adobe XD, AutoCAD, Revit, Fusion 360, Figma.

Computation Design: Möbius Modeller.

Programming: Mathematica, MATLAB, NetLogo, Python, C, C++, Visual Basic, Git.

Web Design: WebGL, HTML, CSS, JavaScript, ReactJS.

Electronics: Arduino, Fritzing, CODESYS, Atmel AVR.

LANGUAGES

Proficient
English, Malayalam, Konkani, Hindi

Intermediate
Tamil

Beginner
Japanese, Sanskrit

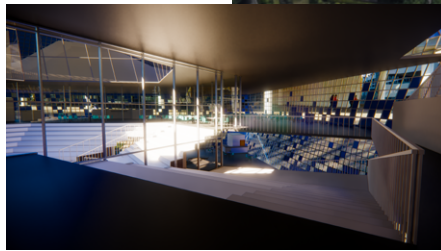
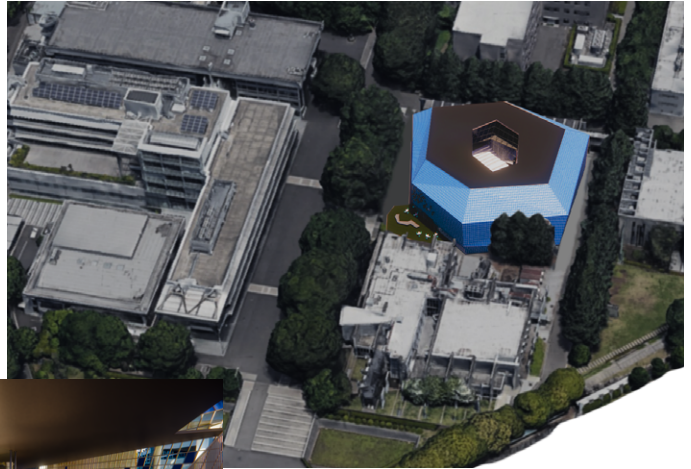
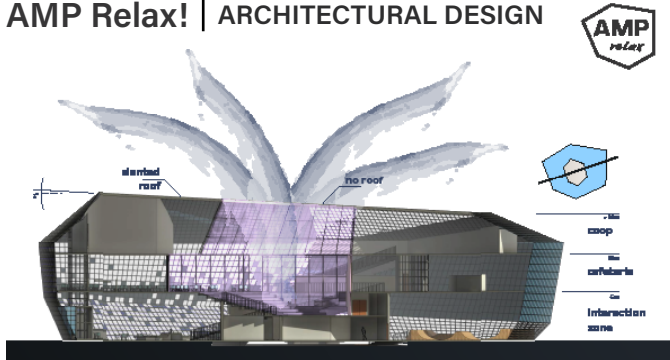
1 - National Initiative on Undergraduate Science

2 - National Standard Examination in Physics (Preliminary to Indian National Physics Olympiad)

Extended CV

ART, ARCHITECTURE & DESIGN

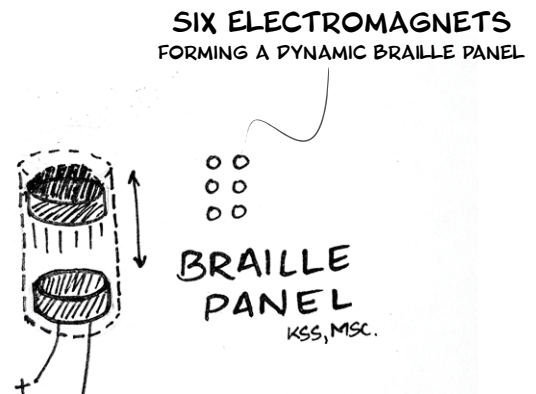
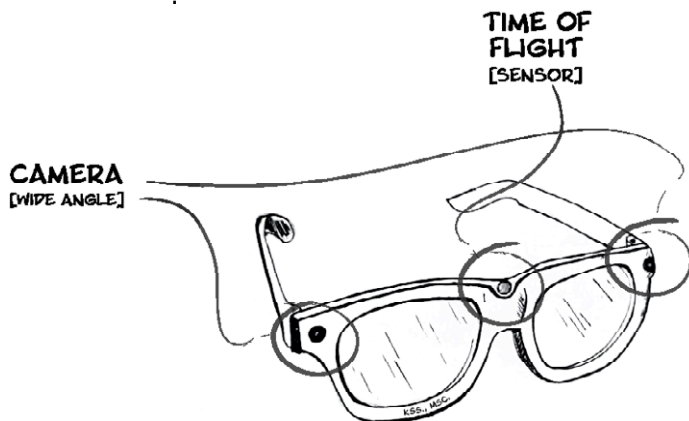
AMP Relax! | ARCHITECTURAL DESIGN



Want to see more?

Please visit my design portfolio here

<https://kichappa.github.io/resume/design.htm>



Sketches | DIGITAL ARTWORKS



Master Copy of Rembrandt, 1660
TEXTURED CANVAS PAINTING



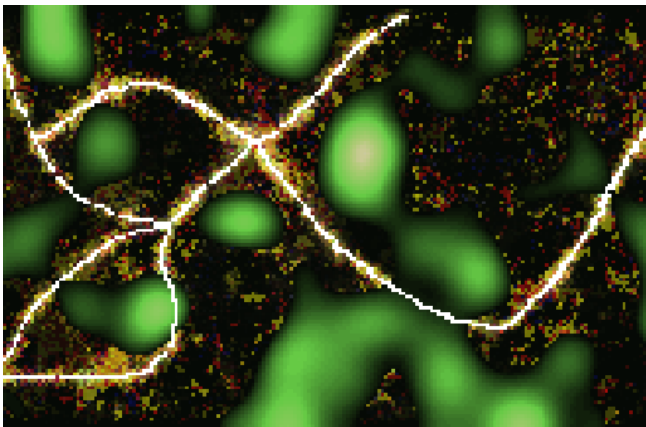
Nokia
SINGLE PEN OUTLINES



Ellipticapsicum
PENCIL SHADING



Master Copy of Circle of Paolo
Uccello | TEXTURED CANVAS PAINTING

Computational Origami Structures | SENIOR THESIS | kichappa.github.io/#/p#computation-origami-IASSCity Sandbox Simulation | URBAN GROWTH MODELS | kichappa.github.io/#/p#urban-growth-models

- Simulated urban growth on a fixed infrastructure using the agent-based modelling software, Netlogo.
- The system is simulated for various tolerances of residential over industrial to analyze the dependency on land use on tolerance. The simulations are repeated at each boundary condition to eliminate stochasticity.

Freeform Gradients



Delaunay Colours

