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LinkedIn

Suraasa profile

EDUCATION

M.Tech, Design Engineering
BITS Pilani
2025 – 2027

B.E., Electrical & Electronics Engineering
GSSSIETW, Visvesvaraya Technological University
2014 – 2018

TEACHING QUALIFICATION

PGCTL – ATHE Level 6 Diploma in Teaching
Suraasa
2022 – 2024

IB TRAINING

IB MYP Design – Category 2

Workshop facilitator, MYP Design
SAIBSA
2024

LANGUAGES

English, Kannada, Hindi

Chaitra R

IB MYP & DP Design Technology Teacher

Design & Technology · STEM · Makerspace Educator

B.E. Electrical & Electronics Engg. · Master's in Design Engineering
PGCTL, ATHE Level 6 Diploma in Teaching

PROFILE

IB-trained Design & Technology teacher with an engineering background and **6 years of teaching experience**, including **4+ years teaching IB MYP and DP** in an IB World School. I build technology into hands-on, inquiry-based learning, from CAD modelling, FEA and simulation-based lessons to 3D printing, Arduino and coding. In May 2026, **71% of our MYP Design cohort achieved Grade 6 or 7** in the eAssessment. Beyond my classes, I set up our **Design Lab/Makerspace and Robotics Lab** from scratch, contributed to **IB, CIS and NEASC accreditation**, and lead **IGNITE, our Design department's annual makeathon and hackathon festival**. I keep learning myself as design and technology continue to evolve.

EXPERIENCE

Sreenidhi International School, Hyderabad
2022 – Present

MYP/DP Design & Technology Facilitator · Personal Project Supervisor

- Teach **IB DP Design Technology** (HL/SL) and **IB MYP Design** (Years 1–5) in an IB World School; guide DP students through their Internal Assessments, aligned with the new DP syllabus (first assessment 2027).
- Bring engineering tools into DP Design: students model their ideas in **CAD**, test them with **FEA simulation**, then build physical prototypes and compare the results.
- Create **simulation-based, interactive lessons** where students explore design concepts by testing, adjusting and observing results, not just reading about them.
- Integrate **TOK** into DP Design units: students take positions on design claims, analyse real cases through the TOK elements (scope, perspectives, methods and tools, ethics), argue as different knowers, and build claim–counterclaim arguments and their own knowledge questions in a TOK journal.
- Contributed to strong **May 2026 MYP eAssessment** results, with **71% of the MYP Design cohort achieving Grade 6 or 7**.
- **Differentiate** tasks, scaffolds and support for students of varying abilities, and give regular, meaningful feedback against IB assessment criteria.
- Align the design cycle, practical skills and assessment expectations across MYP and DP for a smooth MYP-to-DP transition.
- Lead woodworking, 3D printing and CAD-to-prototype work in the **Makerspace**, guiding students through material selection, joinery and fabrication.
- Design MYP units on Arduino-based electronics, sustainable design, upcycled fashion and community-centred problem solving.
- Supervise **MYP Personal Projects** from problem identification and prototyping to final presentation.

SKILLS

Leadership
Lab setup & management · Accreditation (IB, CIS, NEASC) · Event planning & budgeting · Teacher mentoring

Technology integration
CAD modelling · FEA · 3D printing · Arduino · Mechanism design & robotics · Python · HTML, CSS, JavaScript · Adobe Photoshop

Makerspace
Woodworking & joinery · Material selection · Fabrication & prototyping

Teaching & learning
Hands-on, inquiry-based learning · Differentiation · IB assessment, MYP eAssessment & IA guidance · Pastoral care · Distance & hybrid teaching

Systems
ManageBac (co-admin)

PROFESSIONAL LEARNING

Using Technology for Teaching & Learning

Assessment & Evaluation Techniques

Learning Theories & Teaching Strategies

Questioning Skills & Techniques

Lesson Planning

Woodworking – Level 2

LEADERSHIP & DEPARTMENTAL INITIATIVES

At Sreenidhi International School

- Set up the school's **Design Lab / Makerspace** and **Robotics Lab** from scratch, planning the space, equipment and safe working routines.
- Contributed to **IB authorisation and evaluation**, **CIS** and **NEASC** accreditation processes for Design.
- **Lead organiser of IGNITE**, the **MYP/DP Design department's annual makeathon and hackathon festival**: plan the themes and the makeathon and hackathon categories, the budget and materials, and communication with students and parents.
- Facilitate **MYP interdisciplinary units (IDUs)** with colleagues from other subjects, bringing design-cycle rigour into collaborative units.
- **Mentor teachers** as Personal Project supervisors, helping them guide students through the PP process.
- Serve as a **homeroom advisor** and help prepare the school's **homeroom programme**, providing pastoral support and acting as a point of contact between students, parents and school.
- Serve as **ManageBac co-administrator**: train teachers on ManageBac and manage report generation for the school.

PARTNERSHIPS & INNOVATION PROGRAMMES

- **T-Works (Hyderabad):** trained at T-Works, then trained teachers and ran hands-on design workshops for students.
- **Great Innovation Challenge by T-Works:** mentored students through a 2-month social innovation bootcamp, from identifying community problems to prototyping solutions.
- **T-Hub (Hyderabad):** ran sessions for students and led student visits to the innovation hub.
- **SAIBSA 2024:** facilitated an MYP Design workshop.

EARLIER EXPERIENCE

Byju's Future School — 2020 – 2022
STEM Instructor (Online)

- Taught live online STEM and coding lessons to students from many countries, gaining strong **distance-learning** experience with multicultural learners.
- Guided students to build games, animations, chatbots and introductory AI models using Python, JavaScript and block-based coding.

Awign Enterprises Pvt. Ltd., Bengaluru — 2019 – 2020
Sourcing & Technical Training

- Worked as part of the sourcing and technical training team at a Bengaluru-based start-up.