

3D & AUGMENTED REALITY SYSTEM

SATORI

Training & Education

About



Department of Mechanical Engineering
Indian Institute of Technology Madras

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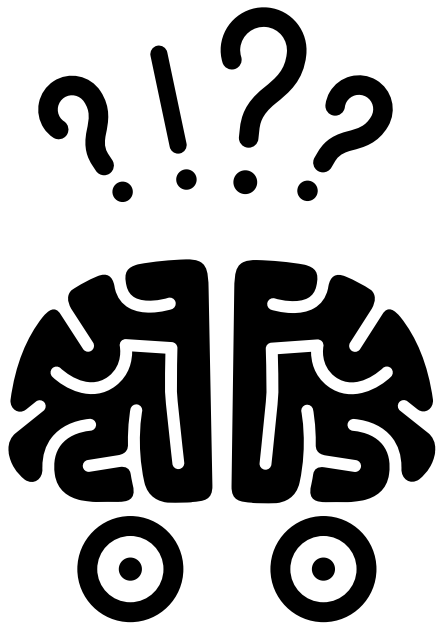
VIBROMECH
ADVANCED TECHNOLOGIES
FOR THE FUTURE

- Satori training and education apps allow students and trainees to visualise difficult concepts and directly improve cognitive outcomes.
- The apps have been demonstrated to improve understanding and extend attention spans in a classroom environment as well

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Needs & Challenges?



Created by Cédric Villain from the Noun Project

Students overwhelmed

- Information Overload
- Received over a short period of time

Disengagement during teaching

- Teacher not engaging
- Teaching methods are focused on providing facts
- Boredom

Disengagement post teaching.

- No motivation after class
- Poor retention and recall
- No follow up

Learning vs. doing

- Practice vs reading
- fear of failing

Visualization

- Invisible phenomena
- Hard to explain phenomena

Lab equipment

- Availability
- Capital cost
- Operating cost
- Student usage Risk



Media

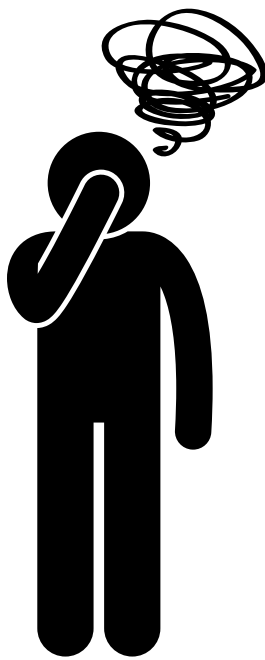
- Trend towards digital media
- Decline in printed material
- Need to compete with multiple

Student behavior

- Low attention span
- Data overload
- Not easily impressed
- Access to distracting data

Employment selection process

- Regurgitation bias
- Changing now



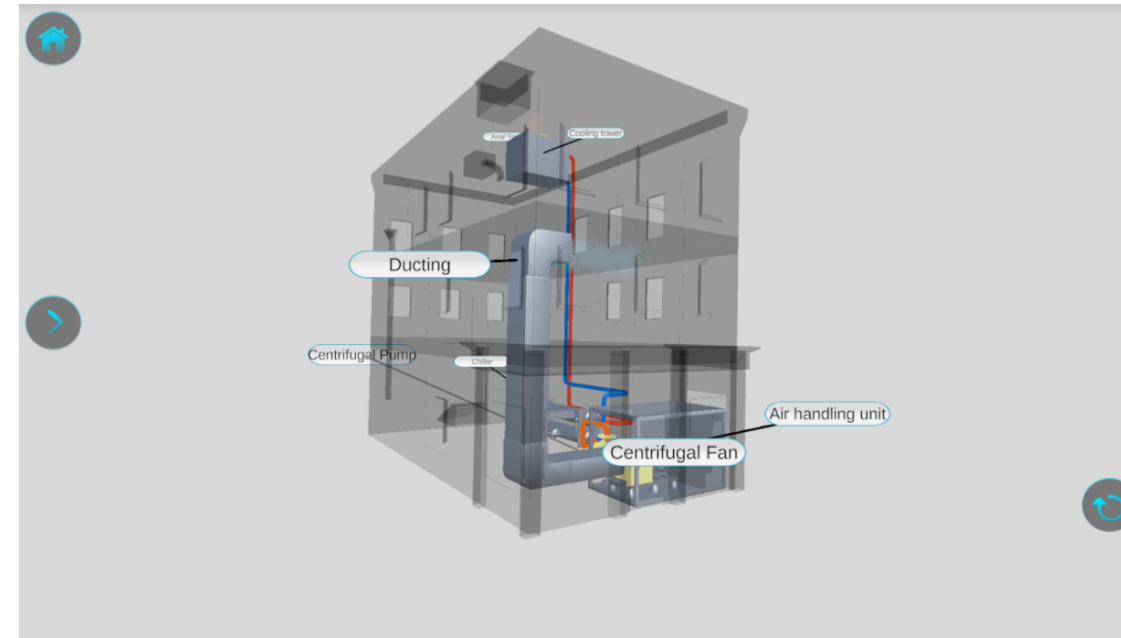
Created by Gan Khoo Lay from the Noun Project

Students



Created by Wilson Joseph
from the Noun Project

For Students



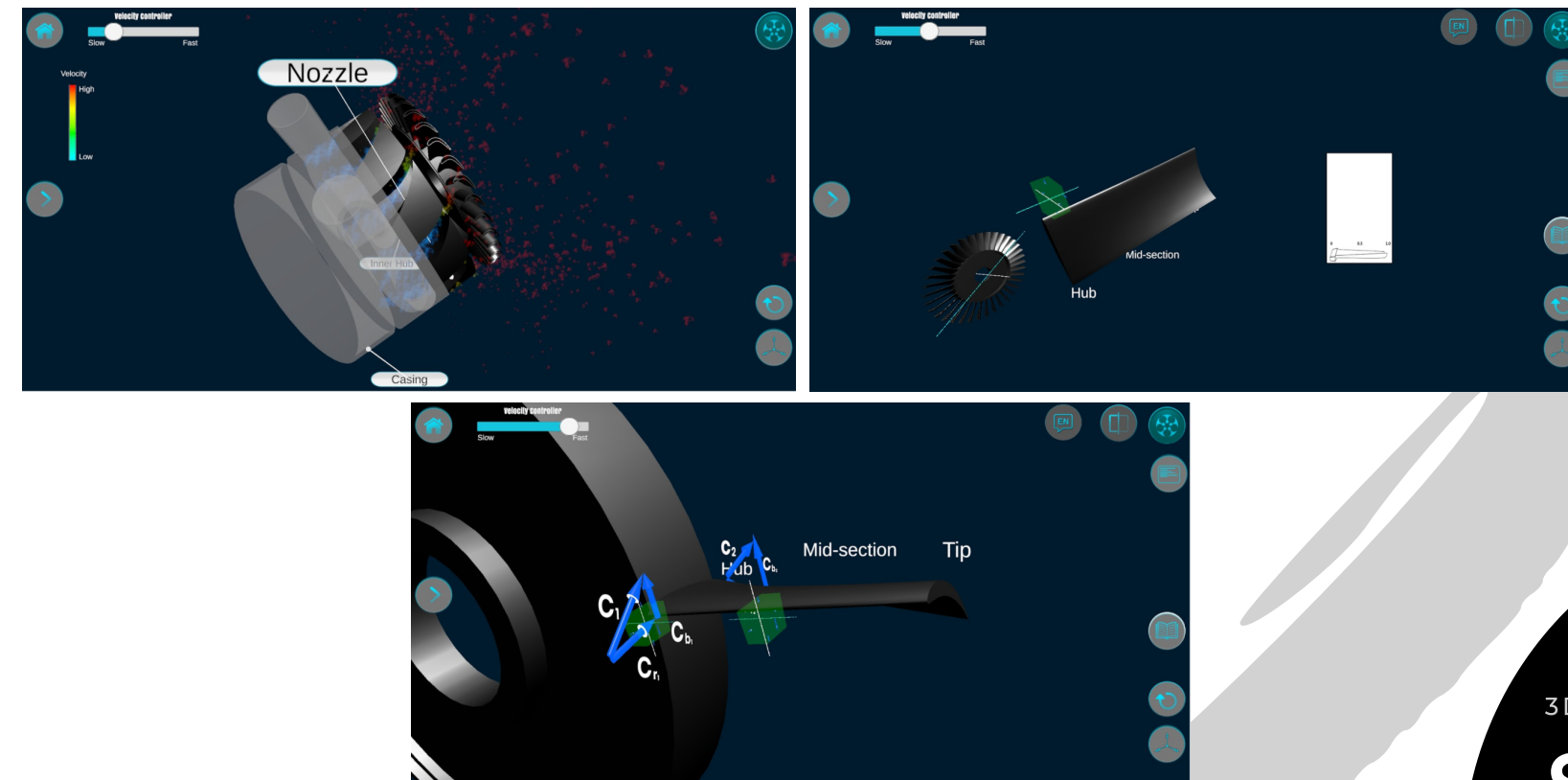
- Immersive - Unlike textbooks - Dynamic - Animated
- Engaging - Interactive - Story telling
- Encapsulated
- Personalised - Student decides on POV
- Flexible learning environment
- Home/Class Simulated environments
- Acquire information visually
- See objects in context



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from the Noun Project

For Students

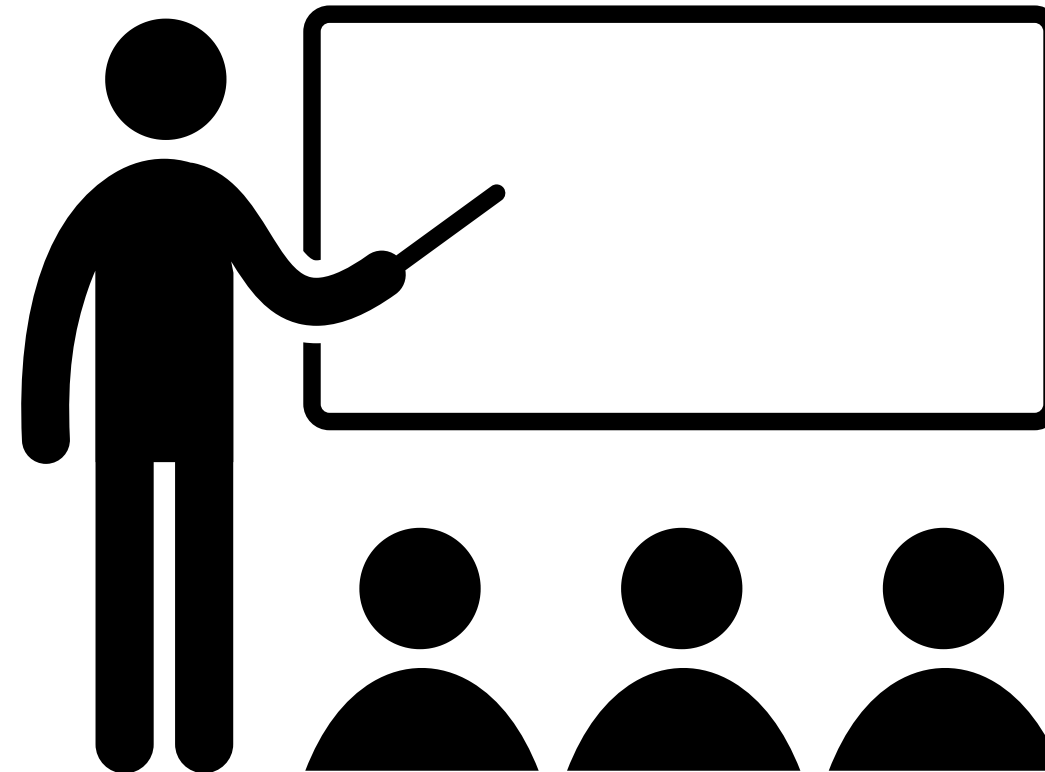
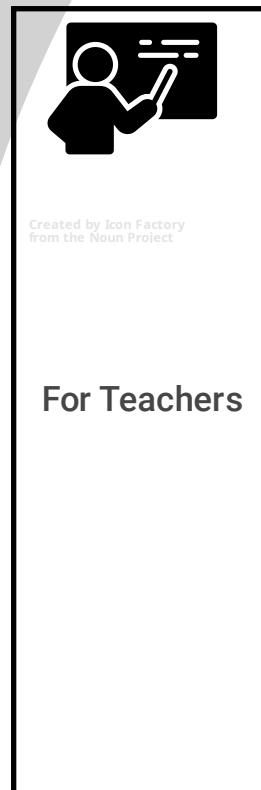
- Interact - Explore and manipulate them
- Examine case studies interactively.
- Enhanced creative thinking
- Fewer distractions
- Retention of knowledge and expertise
- Increased pace of learning
- Deeper learning through interactivity
- Gamified motivation



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Teachers & Institution



Attentive students

- Interactive demonstrations
- Attention grabbing

Dramatic impact

- Engrossing visuals
- 3D visuals
- Point of View

Effective teaching

- Consistency of the message
- The software leads the teacher

Very low setup effort and time



Put the student first

- Improved Learning outcomes
- Personalised content
- Student driven consumption

Ensure Quality

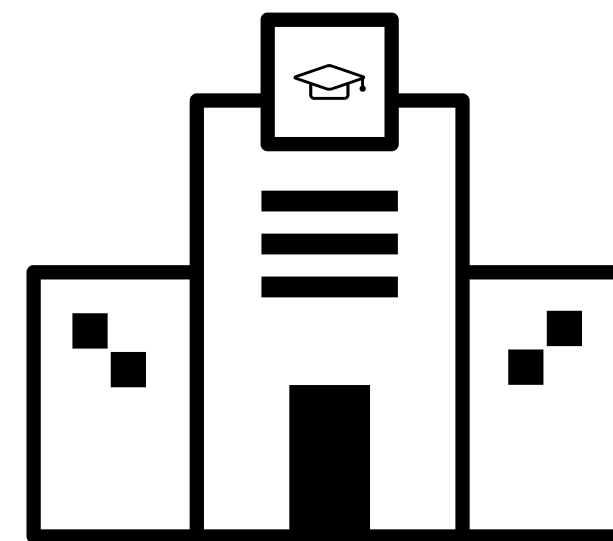
- Consistent training delivery
- Experiential learning

Improve productivity

- Reduce setup effort and time
- Easily distributable
- Cost effective solutions possible

Raise the profile

- High tech
- Technology leadership
- Modern Pedagogy



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