



# Varun Siddaraju

## XR + AI Researcher | Systems Thinker

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I work at the intersection of Extended Reality (XR) and Artificial Intelligence (AI), focusing on system-level design.

My focus is on building intelligent, human-centered systems that function as long-term infrastructure rather than isolated demos.

### Snapshot

- 10+ years across XR, AI, and immersive systems
- Research + applied experience across academia & industry
- Leads 4 interconnected initiatives across research, incubation, industry, and education

# Profile Overview & Research Foundation

My work centers on designing adaptive, human-centered XR + AI systems that function as long-term infrastructure rather than isolated demonstrations.

I am particularly interested in how intelligence, spatial computing, and human behavior interact within closed-loop systems—systems that can learn, adapt, and scale over time.

## Systems Perspective

A systems-oriented lens ensures research ideas translate into scalable, real-world XR + AI infrastructure—without losing rigor.

# Approach & Core Focus Areas

My approach is research-driven and systems-oriented.

I begin with foundational inquiry, validate ideas through experimentation and prototyping, translate insights into applied systems, and extend impact through education and community engagement. This ensures rigor is preserved as ideas move from research to real-world use.



**Extended Reality (XR)  
system design**



**AI integration within  
spatial and immersive  
environments**



**Human-Computer  
Interaction (HCI) and  
human-centered  
design**



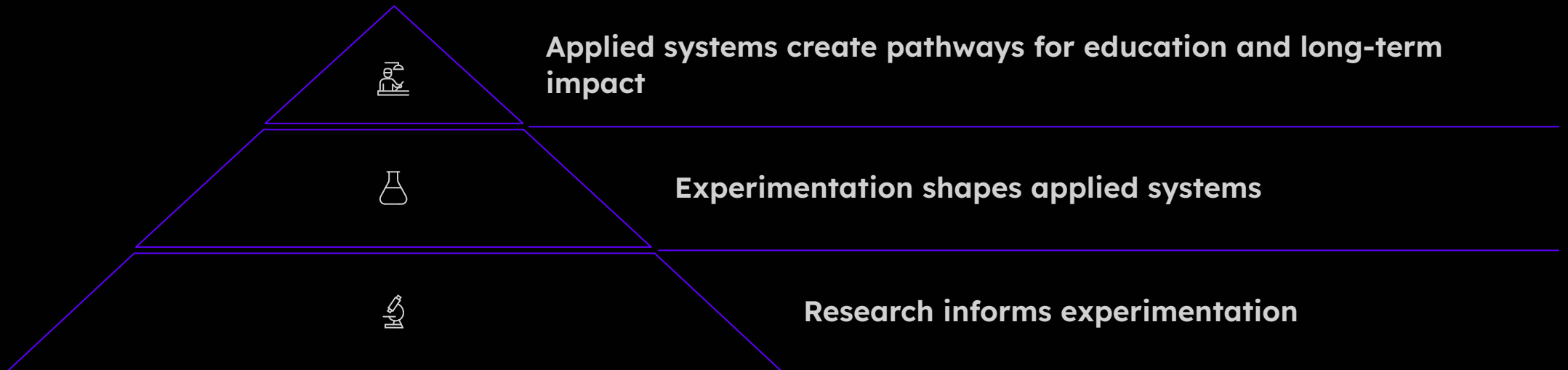
**Spatial computing  
and context-aware  
intelligence**



**Scalable system architecture for immersive technologies**

# Research & Innovation Ecosystem

My work is organized as a connected ecosystem where research, experimentation, industry application, and education reinforce one another.



This structure allows ideas to evolve coherently from inquiry to implementation without fragmentation.

# Ecosystem Initiatives



## **VXR Harmony Labs — Research & Frameworks**

Investigating adaptive, human-centered XR + AI systems through rigorous research and system-level thinking.



## **OpenSpatialAI**

An open research platform for context-aware, adaptive XR + AI systems.



## **V-Cultivate — Experimentation & Incubation**

Exploring long-form thinking and validating early-stage concepts in immersive and intelligent technologies.



## **VeeRuby Technologies — Industry & Applied Innovation**

Translating XR + AI research into production-ready systems, platforms, and applications.



## **V-Connect Innovation Foundation — Education & Community**

Creating educational pathways and fostering innovation communities in XR and AI.

# Education & Research Contributions

## Master of Science (MS) — Electrical Engineering

Texas State University (2016–2018)

Graduate research focused on augmented-reality facet mapping for ray-tracing and wireless channel visualization.

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## Bachelor of Engineering (BE) — Electronics & Communication Engineering

Vidyavardhaka College of Engineering, Mysuru (2011–2015)

Undergraduate research focused on retina-based biometric identification using artificial neural networks.

My academic work integrates augmented reality, wireless systems, and mixed-reality development, with emphasis on system behavior, usability, and real-world deployment.

# Media, Speaking & Collaboration

I'm open to research collaboration, invited talks, and applied system design partnerships.



## Academic Collaboration

Research partnerships in XR, AI, HCI, and spatial computing.



## Speaking Engagements

Invited talks, workshops, and conference sessions on XR + AI systems and human-centered design.



## Industry Partnerships

Strategic consulting and applied research translation for immersive and intelligent systems.

## Get in Touch

### Website

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