

Siddharth

siddharth.s@plaksha.edu.in

EDUCATION

UNIVERSITY OF CALIFORNIA SAN DIEGO

PH.D. IN ELECTRICAL ENGINEERING
(INTELLIGENT SYSTEMS, ROBOTICS,
AND CONTROL)

June 2020 | San Diego, CA, USA

UNIVERSITY OF CALIFORNIA SAN DIEGO

M.S. IN ELECTRICAL ENGINEERING
(INTELLIGENT SYSTEMS, ROBOTICS,
AND CONTROL)

March 2017 | San Diego, CA, USA

INDIAN INSTITUTE OF INFORM- ATION TECHNOLOGY ALLA- HABAD

B.TECH IN ELECTRONICS AND
COMMUNICATION ENGINEERING

June 2015 | Prayagraj, UP, India

WEB LINKS

Website: <http://bit.ly/3WxttS7>

LinkedIn: <https://bit.ly/3XMBQLj>

Google Scholar: <http://bit.ly/3Wzb07P>

AREAS OF INTEREST

Artificial Intelligence
Machine Learning
Human Factors
Computer Vision
Bio-sensing
Affective Computing
Computational Neuroscience

SKILLS

Programming Languages
Python • MATLAB • C/C++
Frameworks
Tensorflow/Keras • PyTorch • Git •
OpenCV • NumPy • SciPy • Scikit-learn
Hardware
PCB design and bring-up • EAGLE •
Various embedded system and sensor
platforms

RECENT WORK EXPERIENCE

PLAKSHA UNIVERSITY | ASSISTANT PROFESSOR

July 2023 – Present | Chandigarh, India

- Leading my research group with the vision to investigate and model human physiological responses to improve cognitive well-being.
- Affiliated with the Entrepreneurship Cell, Center for Teaching, Language, and Communication, and multiple other research centers.

MICROSOFT | SENIOR MACHINE LEARNING ENGINEER

November 2022 – March 2023 | Redmond, WA, USA

- Led the Human Factors group's efforts to design personalized user experiences to increase users' productivity.
- Analyzed how humans behave in Extended Reality (XR) to design immersive avatars, reduce motion sickness, and increase productivity.

MICROSOFT | MACHINE LEARNING RESEARCHER

July 2020 – November 2022 | Redmond, WA, USA

- Used neurophysiology to assess user emotion and subjective experiences for increasing productivity in hybrid work settings.

FACEBOOK REALITY LABS | RESEARCH INTERN

June 2019 - September 2019 | Redmond, WA, USA

- Utilized ML to assess the likeability of diverse content in XR.

FACEBOOK REALITY LABS | RESEARCH INTERN

June 2018 - September 2018 | Redmond, WA, USA

- Utilized ML and bio-sensing for assessing users' cognitive load in XR.

SELECTED PUBLICATIONS

ON ASSESSING DRIVER AWARENESS OF SITUATIONAL CRITICALITIES

Brain Sciences, 2020

IMPACT OF AFFECTIVE MULTIMEDIA CONTENT ON THE ELECTROENCEPHALOGRAM AND FACIAL EXPRESSIONS

Nature Scientific Reports, 2019

SELECTED PATENTS

PRESENTING BIO-SENSING DATA IN CONTEXT

US Patent App. 17/977,672

BIOSENSING AND EYE-TRACKING SYSTEM

US Patent 11,032,457

EMOTION EVALUATION

US Patent 10,285,634

SELECTED ADDITIONAL ACTIVITIES

Alumni Guest of Honor IIIT Allahabad Global Alumni Meet 2022
Former Fellow Editor Prospect Journal of International Affairs