

SAHILANAND

DESIGN TECHNOLOGIST

My expertise lies in bridging the gap between design and implementation. I am passionate about understanding human behavior and designing for users. I specialize in software and hardware prototyping techniques. I am also a robotics researcher and a full-stack engineer.

EDUCATION

MS in Human Centered Design and Engineering

University of Washington, Seattle, WA | Sep 2015 – Mar 2017 (Expected)

B.Tech in Electronics and Communications Engineering

National Institute of Technology Karnataka, IN | Aug 2006 – May 2010

WORK EXPERIENCE

Student Researcher, Human-Centered Robotics Lab

University of Washington, Seattle, WA | Oct 2015 – Present

- › Research, design and evaluation of :
 - › **Social and Conversational Robots** for teaching English to children in rural Africa.
 - › **3D Interfaces** for Robot Tele-Operation and Interactive Manipulation.

Student Assistant, Department of Urban Design and Planning

University of Washington, Seattle, WA | Oct 2015 – Present

- › Design and implementation of :
 - › Interactive **mapping and visualization tools** for visualizing land risks and natural hazards.
 - › **MVP and functional prototypes** for tools to increase understanding of natural hazards among current and future home-owners, real estate agents, insurers, and developers.

Full Stack Engineer + Designer, (Core Founding Team Member)

IIL Technologies Pvt. Ltd, Bangalore, IN | Apr 2012 – Sep 2015

- › Designed and developed **multi-platform solutions** for clients to improve marketing strategies and customer engagement for their products :
 - › Performed **complete UCD lifecycle** and led the **implementation and deployment** of solutions.
 - › Increased **Customer Engagement by 3X** and **Sales Conversion from 7% to 25%** in first month.
 - › Enabled **timely and data-driven decisions**, reducing reaction time from **1 week to few seconds**.
- › Created **MVPs, mock-ups, software and hardware prototypes** for validating product ideas with potential users and for product demos to clients and investors.
- › Developed **product visions, marketing strategies and business models** for in-house products.

Technology Consultant, Research and Development

India Innovation Labs, Bangalore, India | Jun 2010 – Sep 2015

- › Researched and developed **Robotics, Computer Vision and Natural User Interface** technologies
- › **Collaborated with industry partners** to research, develop and evaluate numerous **software and hardware prototypes** and applications for emerging technologies.
- › **Mentored** 20+ undergraduate engineering students in Robotics and Computer Vision projects.

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SKILLS

UX

User-Centered Design
User Research
Usability Evaluations
Wireframing
Low to Hi-Fi Prototyping
Interaction Design
Data Analysis

Design Tools

Adobe Creative Suite
Balsamiq
UXPin
Unity
Autodesk Maya

Programming

C/C++
Java
Python
HTML, CSS
Javascript
Arduino
SparkCore
Raspberry Pi

Frameworks

OpenCV
ROS
Unity
NodeJS
AngularJS
Dojo
Meteor
Django