

SahilAnand

Design Technologist

I have a deep and broad background in software, hardware and robotics. I research, design and build prototypes for proof-of-concept, demonstration and testing of emerging technologies. By combining UX design and engineering expertise into a single discipline, I inspire development teams and senior leadership to invest in new ideas that solve real-world consumer and enterprise problems.

EDUCATION

MS in Human Centered Design and Engineering

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

B.Tech in Electronics and Communications Engineering

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

WORK EXPERIENCE

Design Technologist Intern

Amazon, Seattle | June 2016 – Sep 2016

- › Researched and prototyped a system for user experience researchers to **capture and analyze the emotional experience of users** interacting with Amazon Digital Products and Devices.
 - › Designed and implemented the **complete end-to-end workflow** consisting of tools for data capture, upload, emotion analysis, and reporting. Built innovative solutions to simplify the workflow by automating different components.
 - › Created **interactive visualizations** to represent the temporal and task-level emotional experience of participants interacting with products.

Graduate Teaching Assistant, Human Centered Design & Engineering

University of Washington, Seattle | Mar 2016 – June 2016

- › Teaching Assistant for **HCDE 439 : Physical Computing**, an undergraduate level class that introduces students to concepts and practices of engineering human-centered interactive systems and environments using low cost microcontrollers, sensors and actuators.
- › Responsibilities included assisting lecturer in preparation of course content, assisting students with learning and understanding, grading and providing feedback on homework and assignments.

Student Researcher, Human-Centered Robotics Lab

University of Washington, Seattle | Oct 2015 – June 2016

- › Researched, designed and created functional prototypes to evaluate:
 - › **Social and Conversational Robots** for teaching English to children in rural Africa.
 - › **3D Interfaces** for Robot Tele-Operation and Interactive Manipulation.
- › **Co-authored publication** titled "*Automatic Adaption of Online Language Lessons for Robot Learning*" at the International Conference on Social Robots, ICSR 2016

CONTACT

symanand@uw.edu

(206) 954 8144

sahil-anand.com

SKILLS

UX

User-Centered Design
User Research
Usability Testing
Wireframing
Interaction Design
Data Analysis
Rapid Prototyping
Information Visualization

Design Tools

Adobe Creative Suite
Autodesk Maya, 123D
Proto.io
Makerbot Makerware

Programming

C/C++
Java
Python
HTML, CSS
Javascript
Arduino

Frameworks

ROS
Unity
Django
Meteor
Angular
Bootstrap

WORK EXPERIENCE (contd.)

Student Assistant, Department of Urban Design and Planning

University of Washington, Seattle | Oct 2015 – Mar 2016

- › Designed and developed:
 - » Interactive **mapping and visualization tools** for visualizing risks and natural hazards.
 - » **MVP and functional prototypes** for a web-based tool to enable users to search for a specific land parcel and receive a visual and statistical report describing its vulnerability to natural and human-health related hazards.

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

ILL Technologies Pvt. Ltd, Bangalore, India | 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.

Technology Consultant, Research and Development

India Innovation Labs (ILL), 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.