

# Manikandan Kandadai Venkatesh

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## WORK & RESEARCH

### The Designers of Interactive, Intelligent, Internet of Things (DolIIT) Lab - UM | Research Assistant

Assisting a PhD candidate in creating a soundscape composition tabletop tool to enhance imaginative storytelling with tangible objects.

### University of Michigan College of Literature, Science, and the Arts (LSA) | Consultant

Lead Designer and Rapid Prototyper for LSA faculty research projects and LSA Information Technology Services

### University of Michigan Information Interaction Lab (MI2) | Research Assistant

UX Researcher in computer vision and voice based interactions with Kinect v2.

### Ernst and Young LLP, Chennai, IN | Senior Analyst

Designer and Developer for EY Innovation center and EY Security Operations center.  
Facilitated Design thinking with Partners and Managers.

### Ernst and Young LLP, Chennai, IN | Analyst

Performed manual and automated vulnerability analysis and penetration testing activities.

### Simple Labs, Chennai, IN | Intern

Technologist/maker/tutor of creative coding using hardware prototyping platform (Arduino).

## PROJECTS

### Olegoru:

Using Openframeworks to detect tangible objects on tabletop surfaces for digital storytelling.

### KinectVR Game:

Designed and developed an Android mobile VR game controlled by hand gestures tracked using microsoft kinect.

### Tangible Modular Instruments:

Intervention of digital music creation on smartphones by prototyping tangible modules that augments the affordance of traditional instruments on digital devices.

### Bionic Arm:

An exoskeleton wearable around the wrist to navigate a robotic car in inaccessible locations.

Jan 2017 - Present

Sept 2016 - Present

Sept 2016 - Dec 2016

July 2015 - July 2016

July 2014 - July 2015

May 2013 - July 2013

2017

2016

2016

2014

## EDUCATION

### University of Michigan School of Information | Ann Arbor, MI

Master of Science in Information - Human Computer Interaction (HCI)  
Grad - April 2018

### B.S.Abdur Rahman University | Chennai, India

Bachelor of Technology - Electronics and Communications Engineering  
Grad - Oct 2014

## SKILLS

### Creative Coding:

Openframeworks, Processing, MaxMSP, Python, C++.

### Web Dev:

HTML, CSS, Javascript, PHP

### Design & Prototyping:

Sketch, Principle, Illustrator, Origami, Flinto, Framer.js, Proto.io, Invision, Arduino, RaspberryPI, Unity3D, Rhino.

### UX Methods:

Brainstorming, Personas, Interviews, Storyboarding, Affinity Mapping, Usability Testing, Focus groups, Need finding.

## LEADERSHIP AND AWARDS

EY Excellerator Award | 2016

Winners - Madras Mossaic (EY Cultural Event) | 2015

Ey Mentorship Program | 2015

President Robotics Club | 2012-2014

Captain Cricket Team | 2010

## LINKED IN

<https://www.linkedin.com/in/kvmani>