

# ARCHANA RAMESH

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Actively seeking co-op/Internship opportunities, Summer 2017.

## COURSES COMPLETED

Java for Programmers, Knowledge Representation Technologies, Scholarship in IST

## CURRENT COURSES

Foundations of HCI, User Centered Design, Usability Testing

## EXPERIENCE

**Intern - National Aerospace Laboratories**  
Surface defect detection on Aircraft structures using Image Processing

Jan 2016- May 2016

The aim of this project was to detect dents on aircraft structures and also estimate the depth of it. It was developed in Matlab and its front end was designed. Business requirement documents were created from the project charter and SDLC lifecycle was followed for the development process. Pictures of the dents with three different phase angles were taken and these pictures were filtered, phase wrapped, phase unwrapped and height mapped to output the height of the dent. The software was tested using UAT and SIT test scripts. Won the best project award out of 70 projects in Information Science Department of R. V. College of Engineering. Soon a research paper is going to be published on this topic.

**Intern - Indian Institute of Science**  
Android Application for Ultrasonic based Testing

Jan 2015- July 2015

Developed an Android app and designed its front end along with the Business requirement document. It took different Data samples for different kinds of signals as inputs and generated graphs indicating the distribution of the sample for each of these signals.

## SKILLS



## EXTRACURRICULAR ACTIVITIES

- Won 3 gold, 3 silver and 1 bronze medals in city level swimming competitions.
  - Part of a Rotary Club (a voluntary organization).
- Participated in Mega Ryla, which aimed at targeting innovative methods of teaching in Government schools.
- Taught in an orphanage for a month.

## EDUCATION

**M.S. in Human Computer Interaction**

Expected graduation date- May 2018  
Rochester Institute of Technology, Rochester NY.

**B.E. in Information Science**

Graduation date- May 2016  
R. V. College of Engineering, Bangalore, India.

## PROJECTS

**Usability Testing - Bergen Swamp preservation society**

Feb 2017- May 2017

Collaborated with Bergen swamp preservation society to perform usability testing on their website. Our task is to spot problems in the website, evaluate the features that need improvement, features that are not working and the missing features, analyze the interaction behaviors and complete user experience. Heuristic evaluations were done post which screeners and flyers were printed and a test plan was created. We are currently in the stage of recruiting participants and performing the usability testing.

**Project - Accoutre**

Feb 2017- May 2017

Designing an app that would assist people to choose clothing based on the weather conditions and fashion trends. The project involves contextual inquiry, building the flow, sequence, artifact, culture, physical and consolidated sequence models and also making the affinity diagram. The next steps are creating scenarios, story boarding, wire framing and then prototyping.

**Google Maps Study**

Feb 2017- May 2017

Observed users use google maps and analyzed the problems faced by them with the user interface. This was done by conducting field observations and contextual inquiry and by conducting interviews. We are currently at the stage of persona creation, story boarding and heuristic evaluations. Post this we will suggest possible solutions through wireframes to the problems faced by the people based on information from the persona creation, design scenarios and story boarding.

**Twitter Project**

Oct 2016- Dec 2016

This application was developed, for the course 'Knowledge Representation Technologies' in Grad school, using Java Swing and MongoDB. It fetched records of customers from a twitter database related to a given input keyword.

**Course Outcome Mapping**

Jan 2015- May 2015

Designed and developed a web application for the course outcome mapping system in R. V. College of Engineering, Bangalore. Each course had outcomes, and the scores students obtain in the tests and exams were mapped to these course outcomes.

The overall percentage of each student was compared to all the other students for each course outcome to determine how successful the student was in fulfilling that course outcome.

This also helped in updating the courses in future. SDLC lifecycle was followed for the development and UAT and SIT test scripts were used for testing. Backend: MySQL

Front End: Html, CSS, Javascript, Bootstrap, Ajax and JQuery