

# AHALYA MANDANA

## **PROFILE**

M.S. in Robotics student, with an undergraduate background in electrical and electronics engineering. Subject knowledge includes:

Control Systems	Modern Control Theory
Linear Integrated Circuits	Digital Signal Processing
Advanced Industrial Automation	Digital System Design
Power Systems	Nano Fabrication and Characterization
Power Electronics	Engineering Physics
Microcontrollers: Programming and Interfacing	Engineering Mathematics

## **EDUCATION**

### **Northwestern University**

Evanston, Illinois

M.S. in Robotics

September 2017 – present

### **M.S. Ramaiah Institute of Technology**

Bangalore, India

B.E. in Electrical and Electronics Engineering

CGPA(for 6 semesters): 8.57/10

August 2013 – June 2017

### **Royale Concorde International School**

Bangalore, India

All India Senior School Certificate Examination

Central Board of Secondary Education

Marks: 95.2%

March 2013

### **Royale Concorde International School**

Bangalore, India

All India Secondary School Examination

Central Board of Secondary Education

Marks: 10/10 CGPA

March 2011

## **WORK EXPERIENCE**

### **Summer Intern at *Electronics For You Group*, Bangalore**

June 2016 - July 2016

The internship included the following:

- Writing articles based on expert talks from *India Electronics Week* 2016
- Interacting with industry experts to gather additional input for articles
- Using Wordpress CMS to publish articles at the *Electronics Of Things* portal
- Writing *Buyers' Guide* articles for *Electronics For You* print magazine

The summer internship included coverage of panel discussions and talks related to the following fields:

- Bluetooth Low Energy and Bluetooth Beacon Applications
- Interoperable IoT Solutions
- Renewable Energy Microgrids
- Security of Things
- Human Health IoT
- Threat Perception and Attack Scenarios in Automotives

## **PROJECT WORK**

### **1) e-Yantra Robotics Competition, 2015 conducted by Indian Institute of Technology, Bombay**

October 2015 – February 2016

Our four member team participated in this all-India competition, organized by the Indian Institute of Technology, Bombay (IIT-B). It began in October 2015. The theme given to us was Recyclable Waste Management. We had to devise an efficient method to segregate the waste in a locality, using two robots, Firebird V (ATMEGA 2560 microcontroller) and Spark (ATMEGA 16 microcontroller). We successfully implemented the code using C programming and were placed among the top 10 teams, across India, in the Recyclable Waste Management category.

## **HONORS AND AWARDS**

- **Scholarship for Higher Education (SHE) from Government of India**  
July 2013

Was in the top 1 percentile of students in the Central Board of Secondary Education (CBSE) All-India Senior School Certificate Examination (Grade 12) results, and was judged to be eligible for a Rs. 400,000 scholarship for undergraduate studies.

- **Best Outgoing Student award for the year 2012-13 in Royale Concorde International School, Bangalore**  
February 2013

## **OTHER EXPERIENCE**

### **1) Summer Camp by the *Free Software Movement Karnataka***

July 2014

Attended a two-week residential Open Source coding workshop conducted by the Free Software Movement Karnataka (in association with Mozilla) at Dayanand Sagar College of Engineering, Bangalore. The software that we worked with at the summer camp included the following:

- NodeJS
- MongoDB
- JavaScript
- HTML
- CSS

We were also introduced to the various Webmaker Tools provided by Mozilla Firefox.

## **2) 3D Printing Workshop by Li2 Innovations**

March 2014

Attended a two-day workshop conducted by Li2 Innovations in M.S. Ramaiah Institute of Technology. The software that was taught to us during the workshop included Blender and Cura.

## **3) Basic Animation Course conducted by Cavalier Animation**

March 2011

Completed a two-month basic animation course using Adobe Flash, Adobe Photoshop, and MonkeyJam software from Cavalier Animation.

## **COMPUTER PROFICIENCIES**

- C
- JavaScript
- MySQL
- PSPICE Simulation Software
- HTML
- CSS
- Verilog
- MATLAB
- Octave
- Assembly Language Programming(ALP) for 8051 microcontroller

## **CO-CURRICULAR ACHIEVEMENTS**

- Member of the MSRIT college 4x100m Relay team that won gold at the VTU (Visvesvaraya Technological University) Meet held at Sir MVIT, Bangalore in 2016
- Member of the MSRIT college 4x100m Relay team that won gold and set the meet record at the VTU Meet held at JNNCE, Shimoga (the team currently holds the VTU record for 4x100m) in 2013
- Part of the MSRIT Women's college basketball team in 2013-14
- Shortlisted for the last 40 in the Times Scholar program conducted across India by Times of India in 2012
- Participated in the CBSE (Central Board of Secondary Education) National Athletics Meet held in Delhi Public School, Meerut in 2011(placed 5<sup>th</sup> in the finals for 100m)
- Sports Captain for the academic year 2011-12 in Royale Concorde International School, Bangalore

## **HOBBIES**

- Reading
- Writing and performing poetry
- Singing
- Piano

- Guitar
- Athletics

## **LANGUAGES**

- English
- Kannada
- Tamil