

# Tara Merin John

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## CONTACT

ITE Building 423, 371 Fairfield Way, CT 06226  
ECE Department , University of Connecticut  
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## EDUCATION

**University of Connecticut, Storrs, CT** **2016 (expected)**

**Masters in Electrical and Computer Engineering (GPA 4.0)**

*Advisor:* Marten Van Dijk

**University of Kerala, Trivandrum, Kerala, India** **2013**

**Bachelor of Technology in Electronics & Communication**

## EXPERIENCE

**Graduate Research Assistant** **January 2015 - Current**

**Department of ECE, University of Connecticut, CT**

Conducting research on Unconditional Secure Storage of Highly Confidential Data, Embedded Systems Security, Verification and Computation of different Authentication techniques.

**Systems Engineer in Infosys Ltd, Mysore, India** **October 2013 - January 2015**

Worked on applications for insurance companies as a Java developer. Enhanced existing system UI and data base infrastructure through Java coding and rigorous testing.

## ACADEMIC PROJECTS

- **Neural network smart structure design** – Developed an algorithm using C# and Matlab to determine the optimal structure of a deep neural network for dimensionality reduction and image compression applications.
- **Buffer overflow attack** – Identification and Exploitation of Buffer overflow vulnerabilities in C/C++ applications.
- **Quadcopter flight control** – Programmed an ATmega328 microcontroller for autonomous Quadcopter flight. System implementation was done in Embedded Java on the Arduino platform.
- **Accident detector with auto-dialer** – Created an accident detection system using an ATMEGA8L microcontroller and force sensitive resistor. Designed an integrated control system that sends out an alert message using a GSM module when an impact is sensed.

**RELEVANT COURSES**

- Information and Data Security
- Advanced Computer Architecture
- Microcontroller Based System Design

**TECHNICAL SKILLS**

Languages: Java, Embedded Java , C++, C#, Shell script

Database: Oracle, DB2, SQL

Web Technologies: HTML, JavaScript, Php, CSS and XML

**ACTIVITIES**

Organized a robotics competition as part of 'Crossroads 2012', a technology conference conducted at University of Kerala

Passed through Grade 8 Vocal Exams conducted by The Associated Board of Royal School of Music(**ABRSM**), London