

# Sayem Mohammad Siam

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## Education

### University of Alberta

Edmonton

*M.Sc. in Computing Science, Thesis Based, GPA – 3.7/4.0*

*Expected Graduation: August 2016*

#### Coursework.....

Introduction to Machine Learning, Robotics - Visual Navigation, Probabilistic Graphical Model, Computer Vision, Reinforcement Learning (audit), Teaching and Research Methods

### Islamic University of Technology

Bangladesh

*B.Sc. Engineering in Computer Science and Engineering, GPA – 3.85/4.00*

*2008–2012*

## Masters Thesis

**Title:** *Simultaneous Localization and Mapping for multiple robots*

**Supervisors:** Professor Hong Zhang

#### Research Interests.....

Robot Localization, Probabilistic Graphical Model, Supervised and Unsupervised Learning, Reinforcement Learning

## Experience

### University of Alberta

Edmonton

*Teaching Assistant*

*2014-2016*

Advance Game theory(CMPUT 350) ,Introduction to Digital Image processing(CMPUT 206), Introduction to Fundamentals of Computation(CMPUT 175), Introduction to Data Structure(CMPUT 175)

### University of Alberta

Edmonton

*Research Assistant*

*2014–2016*

### Samsung Electronics, R&D Institute

Bangladesh

*Software Engineer*

*2012–2014*

Worked in the following projects

- Android Benchmark Application(Java, OpenGL)
- Android Remote Access Application(Java)
- Native Application Development for Tizen OS ([www.tizen.org](http://www.tizen.org))(C++)
- Tizen Gear App(HTML, Javascript, jQuery)
- Web Application Development for Tizen OS(html, css, javascript)
- Tizen OS HAL layer Testing(C)
- Tool development which will automatically test the HAL of Tizen OS for different devices(C++)
- Sound Engine Prototype for Tizen OS(C++)
- Idea Prototyping: Human fingertip detection, tracking and gesture recognition(Matlab)
- Unit test case development in Tizen Native API(C++)

## Programming Language skills

**Programming Languages:** JAVA(Advanced), PYTHON(Competent), C&C++(Intermediate)

**Scripting languages:** UNIX Shell Scripting, PHP, HTML, CSS, JavaScript, JQuery, Matlab

**Databases:** MySQL, SQL Server, Oracle

**Version Controll:** git, svn

## Samsung Programming contest

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- In Samsung Sotong S-topcoder sotong.sec.samsung.net, my last ranking was 43 among 20452 global Samsung contestants

## Workshops

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- NSERC Canadian Field Robotics Network (NCFRN) Field Trial 2015 and 2016

## Awards

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**2009:** OIC Scholarship

**2008:** Board of Intermediate and Secondary Education Scholarship

## Academic Projets

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- System Input Using Marker Based Hand gesture recognition(Undergrad Thesis)
- Bear Detection Using Convolution Neural Network
- Gender and age group classification using Markov Random Field
- 3D object Reconstruction and the existing algorithms comparison
- SLAM using Recursive Bayesian Filter
- Auto-pilot for Husky and Kingfisher Robots

## Volunteer

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- Developed IUT-4th National ICT FEST's website, using html, css, php and mySql
- Arranged programming workshops at Samsung R&D Institute Bangladesh.
- Organizing member of IUT-4th National ICT FEST 2012
- Organizer of 'Get Root Cyber Security Contest 2012'

## References

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Available upon request