

# Shadly Salahuddin

## PERSONAL INFORMATION

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Address : Wuppertal, North Rhine-Westphalia, Germany  
Date of Birth : 15 December 1993  
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LinkedIn : [www.linkedin.com/in/shadlyd15](http://www.linkedin.com/in/shadlyd15)  
GitHub : [www.github.com/shadlyd15](http://www.github.com/shadlyd15)

## WORK EXPERIENCE

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MAY 2019 - SEPT. 2019	<b>Software Engineer</b> <i>PeepThePlace ( A brand of Solace Innovations )</i> Dhaka, Bangladesh <ul style="list-style-type: none"><li>• Developed OpenWrt based OS for IP Camera and Surveillance Systems.</li><li>• Developed applications and services for Embedded Linux platforms.</li><li>• Extended and maintained web applications using JavaScript.</li></ul>
MARCH 2016 - APRIL 2019	<b>Embedded System Engineer</b> <i>AplombtechBD Ltd. ( A concern of Sinepulse GmbH, Germany )</i> Dhaka, Bangladesh <ul style="list-style-type: none"><li>• Developed Linux based OS and Services for LoRa IoT Gateway.</li><li>• Developed hardware, software and firmware for wide range of processor architectures including i386, x86_64, amd64, AVR, ARM, MIPS.</li><li>• Played a key role in hardware design and software architectural decisions in different projects.</li><li>• Served as lead firmware and hardware developer for Smart Meter IoT module.</li><li>• Maintained firmware and provided technical support for Bangladesh Power Development Board Smart Metering pilot project.</li><li>• Worked with different networking and communication protocols (TCP/IP, PPPoS, TFTP, MQTT, DLMS/COSEM, ISO/IEC 13239:2002, IEC-62056, DL/T645) in various platforms.</li><li>• Worked with different radio technologies like LoRa, Wifi, BLE and GSM.</li><li>• Worked with different cryptography and hashing algorithms (AES, DES, MD5, SHA-1, GMAC).</li></ul>

## EDUCATION

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OCTOBER 2019 - PRESENT	<b>Master of Science, Computer Simulation in Science</b> <i>Bergische Universität Wuppertal</i> Specialization : Imaging in Medicine
JANUARY 2011 - JUNE 2016	<b>Bachelor of Science, Electrical &amp; Electronic Engineering</b> <i>Rajshahi University of Engineering &amp; Technology</i> Thesis : Computer aided detection of brain tumor from MRI images using image processing techniques

## SKILLS

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Programming Language : C, C++  
Familiar With : JavaScript, Python  
Platforms : Linux (Debian, OpenWrt, Buildroot etc.), Windows  
Architecture : i386, x86\_64, amd64, AVR, ARM, MIPS  
Communication Technology : Wifi/Wifi Mesh, LoRaWAN, GSM/GPRS, Ethernet  
Text Formatting : Markdown, Doxygen

## AWARDS

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DECEMBER 2015 *First runner-up in Green Brain 2015 - Idea Contest* organized by The American Center, U.S. Embassy and IEEE RUET Student Branch.  
DECEMBER 2015 *First runner-up in Green Brain 2015 - Project Competition* organized by The American Center, U.S. Embassy and IEEE RUET Student Branch.  
JUNE 2014 *Champion in ETCcell Weekend 2014 - Idea Contest* organized by The American Center, U.S. Embassy and IEEE RUET Student Branch.  
SEPTEMBER 2013 *Champion in University Day - Project Competition* organized by RUET Authority.  
JANUARY 2009 *Champion in Inter-School & College Science Festival - Math Olympiad* held at Dhaka Residential Model College, Mirpur Road, Dhaka - 1207.

## PUBLIC SPEAKING ACTIVITIES

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DECEMBER 2018 *Speaker at Young Professionals Meet Up* program held at United International University organized by IEEE Young Professionals Bangladesh Section.  
AUGUST 2017 Conducted seminar as *Keynote Speaker on IoT And Its Impact* held at ECE Seminar Room, RUET on August 19, 2017 organized by IEEE RUET Student Branch.  
JANUARY 2015 Conducted workshop on *Line Following Robot* held at RUET organized by Robotics Society of RUET.  
MAY 2014 Conducted workshop on *Introduction to Image Processing using OpenCV* organized by Robotic Society of RUET.  
MARCH 2014 Conducted seminar on *Bengali Voice & Gesture Controlled Robot* on 3rd March, 2014 organized by Robotic Society of RUET.

## LEADERSHIP ACTIVITIES

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JANUARY 2014 **Technical Secretary**  
- JANUARY 2015 *Robotics Society of RUET*  
- Provided technical support for undergraduate student's projects.  
- Organized and Conducted seminars and workshops for undergraduate students.  
JANUARY 2013 **Technical Instructor**  
- JANUARY 2014 *Robotics Society of RUET*  
- Conducted short courses on microcontrollers and firmware programming.  
- Prepared course materials for short courses.

Wuppertal, Germany  
8<sup>th</sup> January 2019