MD. RASHEDUL AMIN

RONY

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Experience

- **Project Manager (IoT)**
  Sr. Embedded System Engineer
  NybSys Ltd.
  www.nybsys.com
  (Sep, 2017- present)

- **Embedded System Engineer &**
  CEO
  The Boss Tech. Solutions
  Tech. Solution Provider & Institution
  (Jan. 2013- Apr, 2014)

- **Sr. Embedded System Engineer**
  AplombTech BD Ltd.
  www.aplombtechbd.com
  (Apr, 2014- Sep. 2017)

Education

- **MSc.**
  CGPA: 3.75 (4)
  EEE Dept.
  American International University-
  Bangladesh, Dhaka
  (2013-15)

- **HSC**
  GPA: 4.80 (5)
  Science
  Dhaka Imperial College, Dhaka
  (2006-08)

- **BSc.**
  CGPA: 3.79 (4)
  EEE Dept.
  American International University-
  Bangladesh, Dhaka
  (2009-12)

- **SSC**
  GPA: 4.75 (5)
  Science
  Dhaka Collegiate School, Dhaka
  (1996-2006)

Skills

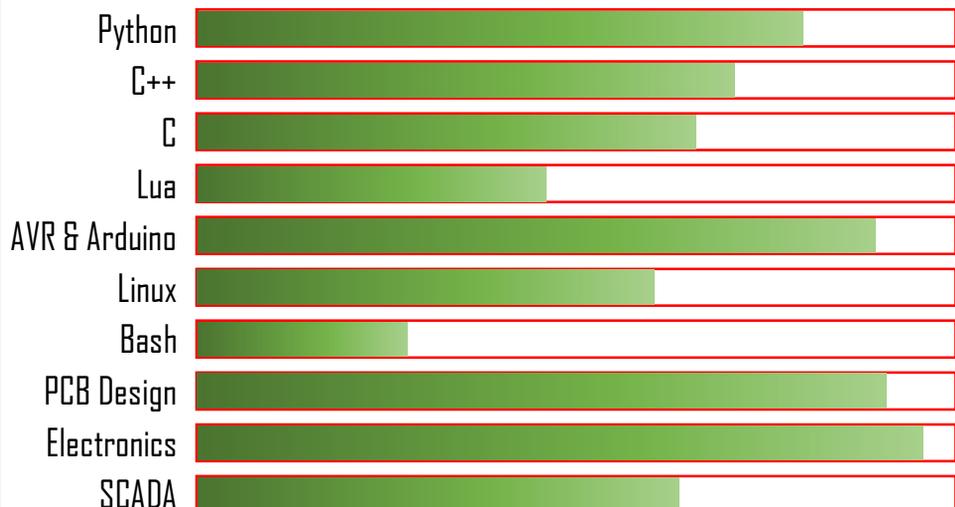| Skill	Level
Python	
C++	
C	
Lua	
AVR & Arduino	
Linux	
Bash	
PCB Design	
Electronics	
SCADA	

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Project Works

- Currently working on IoT Products(Technical team lead),Cyber security & monitoring (Along with DGFI,DB and NTMC),Machine Learning and AI. Python, Bash, C++, OpenWRT are vastly used. Developed a CLI to integrate in our system using telnet.

- Worked on Smart Home gateway firmware (C++ OOP). Unit testing done by python.

- Developed a python based automated attendance system which collects the commit messages from GIT server and attendance from finger print machine, then generate an excel file for each and every developer for every month and fill it on daily basis automatically based of git commit message.

- Python based surveillance system using wifi camera, ffmpeg, raspberry pi, ftp site.

- I have successfully supervised the team on DWASA pump station automation project. (Details : http://www.ittefaq.com.bd/print-edition/city/2016/09/03/141634.html)

- Embedded Linux Development. Developing and building Linux for Router and Wifi camera. Experienced in using Build-root, Open-wrt, Yocto Project etc open source Linux Build Systems.

- Developed and defined full communication protocol for Smart Home System. Experienced in Mosquitto MQTT broker communication.

- Smart Home GUI design & feature defining. Touch Switch development.

- Window Curtain Automation System (C++ OOP based) development based on light sensors.

Publications

- Journal (Journal of "Research and Reviews: Journal of Embedded System & Applications (JoESA)) paper, "A Pseudo Randomly Triggered Integer Cycle Control (PRT-ICC) for AC Loads to Reduce THD, EMI and RFI". 1st Author

- JoCI (Journal of Control & Instrumentation (JoCI)) paper, "Modeling and Performance Analysis of Electrical Vehicle with SPWM Inverter-fed IPMSM Taking Core Loss into Account". 4th Author.

- Completed Conf. (ICIEV) paper & project "Heart Beat Measurement System with wireless Display Unit". 3rd Author (Own project).

Achievements

- Achieved "Cum Laude" Academic Honor of American International University-Bangladesh for excellent performance and record.

- Achieved 3rd prize in Inter-metropolitan science Fair of Dhaka Imperial College.

- Achieved Patrol Leader Rank in 2002 as a Scout of Bangladesh Scout Dhaka Metropoliton from 1999-2006.