

# Maisun Ibn Monowar

## Satellite Systems Engineer

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### Summary

I am a Satellite Systems Engineer, specializing in *Embedded Systems*.

My speciality is on *small satellite on-board electronics*. For my PhD research, I am looking into *in-orbit firmware programming* for cubeSats without creating an extra burden on the development team.

During my master's degree course at Kyutech, I worked on the Joint Global Multi National *BIRDS project*. It was *multi-cultural, multi-disciplinary* team effort which taught me a lot more than any theoretical course could. My colleagues and I built, launched and operated the first CubeSat for Bangladesh, Mongolia and Ghana.

During my undergrad, I studied power electronics and built robots as a hobby. Due to my contribution, I was made the R&D team lead of the BRAC University's Robotics club. The robotics club later evolved into satellite lab.

In my free time, I'm teaching myself to speak Japanese.

### Skills

- Designing embedded systems based on **MIPS / ARM** architecture
- Experience with working with satellite **OBC & COM** systems
- Experience with CubeSat **Assembly, Integration & Testing**
- Simulation in **Spice** and design in **Eagle CAD**
- Experience with drones and drone-based imaging
- Experience working with **\*unix/GNU Linux/Debian**

#### Software skills:

- |          |             |           |          |
|----------|-------------|-----------|----------|
| ▪ C/C++  | ▪ Eagle CAD | ▪ Linux   | ▪ MATLAB |
| ▪ Java   | ▪ SPICE     | ▪ Git     | ▪ Octave |
| ▪ Python | ▪ Proteus   | ▪ LABVIEW | ▪ STK    |

### Education

*PhD Candidate in Satellite Systems Engineering*, current  
**Kyushu Institute of Technology**,  
Japan.

*M.Sc. in Satellite Systems Engineering*, graduated 2017  
**Kyushu Institute of Technology**,  
Japan.

*Attended Student Exchange Program*, October 2014 - March 2015  
**Kyushu Institute of Technology**,  
Japan.

*B.Sc. in Electrical and Electronic Engineering*, graduated 2015  
**BRAC University**  
Dhaka, Bangladesh.

### Training And Certifications

- |  |                                   |
|--|-----------------------------------|
| • Amateur Radio Operator                 | <b>KG5PGZ</b> , General Class     |
| • TOEFL                                  | Score: 106. Taken in 2015         |
| • Course on Introductory Embedded System | Interface Lab, Dhaka, Bangladesh. |

### Language Proficiencies

- |            |                    |              |
|------------|--------------------|--------------|
| • English  | Business Level     | TOEIC 955    |
| • Japanese | Basic conversation | (Approx. N4) |

Past Employment	<p>PixeLizard Lab <span style="float: right;">Dhaka</span>  <i>Embedded System Developer</i> [part time] <span style="float: right;">March 2014 – September 2015</span>  <a href="http://pixelizard.com/lab/">http://pixelizard.com/lab/</a>  PixeLizard lab provides technological solutions to its clients. Its services include web development, game development and hardware development.</p> <p>WNES <span style="float: right;">Dhaka</span>  <i>Team Leader, RnD section</i> <span style="float: right;">2013 - 2014</span>  WNES is a school of robotics for kids. RnD section of WNES is responsible to develop a strategy to teach kids the fundamental of Electronics and Mechanics through fun projects.</p>
Workshops / Conferences (Attended)	<p>68th International Astronautical Congress (IAC), Australia, 25<sup>th</sup> – 29<sup>th</sup> Sep, 2017</p> <p>8<sup>th</sup> Nano-Satellite Symposium, Japan, 5<sup>th</sup> – 9<sup>th</sup> Jun, 2017</p>
Co-Curricular Activities	<p><b>Secretary,</b>  Foreign Student Association of Kyushu Institute of Technology, Tobata Campus.  (for the year 2016 - 2017)</p> <p><b>President,</b>  BRAC University Electrical and Electronics Club (BUEEC).</p> <p><b>Senior Researcher,</b>  BRAC University Robotics Club (ROBU).</p> <p><b>Project Manager,</b>  BRAC University Electrical and Electronics Club (BUEEC).</p> <p><b>Volunteer,</b>  BRAC University Community Service Club (BUCSC).</p>
Memberships / Affiliations	<p><b>UNISEC-BANGLADESH</b>, 2015 student representative.</p> <p><b>IEEE</b>, Member # 92934664</p>