

Reuben Oommen Jacob

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PROFESSIONAL SUMMARY

Undergraduate in Electronics and Instrumentation Engineering from Ramaiah Institute of Technology, Bangalore, 2020 batch. Project, Internship, and co-curricular activity experience consist of core and interdisciplinary work in avionics, control systems, embedded systems, computer simulations and micro-controllers. Research interests include autonomous flight systems and multidisciplinary applications of control systems and electronics.

EDUCATION

- **Ramaiah Institute of Technology**
*Bachelor of Engineering in Electronics and Instrumentation; Current CGPA: **8.1/10***
Bangalore, India
August 2020
- **Delhi Public School East**
*All India Senior School Certificate Examination; Overall Percentage: **87.4***
Bangalore, India
March 2016
- **Delhi Public School East**
*All India Secondary School Examination; CGPA: **9.8/10***
Bangalore, India
March 2014

Internship and other EXPERIENCE

- **L2i Technologies**
Student Intern
Worked on the development of various control system and IOT projects.
Bangalore, India
January-March 2020
- **National Institute of Mental Health and Neurosciences**
Student Intern
Performed Asset Management, Risk Management and Calibration of various Bio medical equipment
Bangalore, India
July-August 2019
- **Edhitha Unmanned Aerial Systems**
Mechanical Research Member and Navigational Head
Performed various forms of mechanical testing and worked with multiple avionics systems and flight control Softwares to develop autonomous flight systems capable of autonomous navigation, remote sensing, surveillance, take-off, and landing. Took part in the 2018 AUVSI SUAS competition
Bangalore, India
Sep 2017-July2018

TRAINING

- **Python Programming Masterclass**
Udemy
Certificate Course
April 2020
- **Discrete Mathematics**
Udemy
Certificate Course
April 2020
- **Testing, Verification and Calibration of Ventilators**
Fluke Biomedical Systems
Certificate Course
July 2019
- **Pravega 20 AI and ML workshop**
Wisdomware Technologies, IISC
Attendee
January 2020
- **Machine Learning**
Internship Studio
Certificate Course
October 2020

PROJECTS

- **Self-Balancing Cycle with Location Tracking**
An autonomous self-balancing cycle capable of static balancing using inertial measurements and a flywheel controlled by a micro-controller. System also provides location tracking using GPS and GSM for extended safety facilities.
- **GPS location tracker with SOS capabilities**
Portable handheld location tracking device capable of continuous tracking with an online database using IOT with various modes of usage.

- **Unmanned Autonomous Aerial system for simulated reconnaissance missions**
UAS capable of autonomous flight and navigation, remote sensing via onboard payload sensors, take-off landing and surveillance.
- **Automatic Home Gardening System**
An Automatic home gardening system capable of controlled irrigation with specific timing and water volume options.

TECHNICAL SKILLS

- **Areas of Experience:** Avionics, Control Systems Computer Simulations, System Design, MS Office
- **Programming Languages:** C, C++, Python
- **Technologies:** NumPy, Scikit-Learn, Mission Planner, Matplotlib, Verilog, Arduino, Energia, Matlab, Rockwell Automation Software, PSpice, MultiSim.

AWARDS

- **Best Project Award**
Won 2nd place in the best project award held by the Ramaiah Alumni Association. April 2020
- **India Innovation Challenges design contest Quarter finals Qualifier**
Qualified for the quarterfinals of the [Texas Instruments IICDC competition](#) . 2019
- **International Rank 10 in the AUVSI SUAS Competition**
Placed 10th Internationally in the [16th AUVSI Student SUAS competition](#), a platform where almost 200 international teams annually build, demonstrate, and compete with UAS systems capable of various Mission requirements. June 2018
- **International Rank 99 in the International English Olympiad**
Achieved a rank of 99 internationally and rank 23 in Karnataka for the International English Olympiad held in January 2013. January 2013
- **State Rank 7 in the International Talent Search Exam**
Achieved a 7th rank in Karnataka for the International Talent Search Exam. January 2007

EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

- **Keyboard**
Play the electric keyboard, certificate holder in Level 1 and 2, Trinity College London, appeared from the Jubal's Music Academy, Bangalore.
- **Sports**
*Was in the school badminton team.
Discus throw champion at intra school level
Avid fitness enthusiast.*
- **Quizzing**
Rank holder in various quizzing olympiads.
- **Leadership**
Navigational head for the AUVSI SUAS, team leader for the IICDC competition team.