REUBEN OOMMEN JACOB

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AIM

Looking for an entry level position in the Software Development area in a Reputed Company.

SUMMARY

Graduate Engineer in Electronics and Instrumentation Engineering from Ramaiah Institute of Technology, Bangalore, 2020 batch. Project, Internship, and co-curricular activity experience consists of core and interdisciplinary work in **control systems, computer science, embedded systems, and micro-controllers**.

SKILLS

Programming Languages: C, C++, Python, HTML, Verilog

Software: MS Office, Arduino, Energia, Matlab, PSpice, Multisim, Rockwell Automation Software, Mission Planner

Exposure: Angular, JavaScript, CSS, NumPy, Scikit-Learn, Matplotlib, Pandas, KNN, AWS

WORK EXPERIENCE

• Ramaiah Institute of Technology   Apr. 2020 - Dec.2020

Student Research Assistant   Bangalore, Karnataka

Project assistant for a department project.

Published author in noted Springer journal Advances in Intelligent Systems and Computing (AISC) Series.

• Li2 Technologies   Jan. 2020 - Mar. 2020

Student Intern   Bangalore, Karnataka

Worked on the development of an IoT focused on assistive rehabilitation.

• National Institute of Mental Health and Neurosciences   July 2019 - Aug. 2019

Student Intern   Bangalore, Karnataka

Biomedical Engineering internship involving the calibration, assessment, and study of medical equipment as part of the medical electronics team of NIMHANS.

• Edhitha Unmanned Aerial Systems   Bangalore, Karnataka

Lead Navigation Engineer   Dec 2017- Aug 2018

Lead Navigation Engineer representing Edhitha for the AUVSI SUAS 2018 held in Maryland, USA.
Lead the team to achieve rank 10 internationally.

Associate Developer: Mechanical and Instrumentation Engineering   Sep 2017-Dec 2017

Associate Engineering Developer for mechanical design and navigational control systems.

EDUCATION

• Ramaiah Institute of Technology   Aug. 2016 - Dec. 2020

B.E Electronics and Instrumentation

CGPA 8.1/10

• Delhi Public School Bangalore East   Mar. 2014 - Mar. 2016

All India Senior School Certificate Examination.

Overall Percentage: 87.4

• Delhi Public School East   Mar. 2014

All India Secondary School Examination.

PROJECTS

- **IoT Based Wearable Tachycardia Monitoring System Using Machine Learning** Mar. 2020-Aug.2020

 Wearable IoT based health monitoring system which continuously pings data to a web server
 where medical data is stored and evaluated using K-Means Clustering algorithms.

- **Self-Balancing Cycle with Location Tracking** Jan. 2020 - Dec.2020

 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** Apr. 2019 - Aug. 2019

Portable handheld location tracking device capable of continuous tracking with an
online database using IOT with various modes of usage.

- **Unmanned Aerial System** Sep. 2017 - Aug.2018

Unmanned aerial drone capable of autonomous flight and navigation, automatic take-off and landing, air drop and image
capture.

- **Wearable smartwatch with Blood Pressure Alert** Apr. 2017 - June. 2017

Wearable smartwatch with a real time clock, pulse sensor and blood pressure alert.

- **Automatic Home Gardening System** Apr. 2017 - June. 2017

Automatic home gardening system capable of controlled irrigation with specific timing and water volume options.

AWARDS

- **Best Project Award** Aug. 2020

Ramaiah Institute of Technology

Best Project in the Department of Electronics and Instrumentation, Batch 2020

- **International Rank 10 in the 16th AUVSI SUAS Competition** June 2018

Students Unmanned Aerial Association

Placed 10th Internationally in the 16th AUVSI Student SUAS competition platform, held in Maryland USA, where almost
200 international teams annually build, demonstrate, and compete with UAS systems capable of various Mission
requirements.

- **International Rank 99 in the International English Olympiad** Jan. 2013

ACTIVITIES

- **Ramaiah Tech Fest** Oct. 2019 - Dec. 2019
  Lead Organizer

- **U&I Teaching Foundation** Dec. 2019 - Mar. 2020
  Teaching Volunteer

EXTRA-CURRICULAR

- **Sports** Oct. 2016 - July 2020
  College Badminton Team
  Bodybuilding

- **Music**
  Trinity Qualified Musician (Keyboard) Grade 3