Omprakash Patra

Personal Data

15 May 1996 DATE OF BIRTH:

> ADDRESS: C-203, D.B.A Hall of residence, NIT Rourkela

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github.com/oblivione GIT LINK:

CAREER OBJECTIVE

To pursue a highly rewarding career, seeking for a job in challenging and healthy work environment where I can utilize my skills and knowledge efficiently for organizational growth.

EDUCATION

CURRENT COMPUTER SCIENCE AND ENGINEERING DEPARTMENT,

National Institute Of Technology, Rourkela Major: Computer Science and Engineering

Advisor: Dr. Ratnakar Das

GPA: 6.70/10

MARCH 2013 Intermediate in SCIENCE,

Saraswati Vidya Mandir Neelakantha Nagar, Berhampur

Percentage: 78.5

PROJECTS

AUTONOMOUS UNDERWATER VEHICLE MAY 2015 -PRESENT

TEAM CAPTAIN AND SOFTWARE TEAM HEAD

Working as Software stack Developer on ROS platform for NITR AUV team .Currently I am working on INS(vn-100), mission planner, scheduling algorithms, control algorithm nodes and Image processing algorithms for AUV. In near future, I am going to implement

Machine learning.

UAV(UNMANNED ARIAL VEHICLE) FEBRUARY 2016 - PRESENT

ACADEMICS THESIS

UAV to autonomously navigate in an unknown environment without resorting to GPS localization, the main challenge is using visualodometry, SLAM algorithms and on-board IMU to develop navigation and position estimation algorithms to achieve an autonomous

and robust navigation.

KALAM SATELLITE PROJECT MARCH 2015 - JANUARY 2016

HEAD OF ONBOARD SOFTWARE TEAM

The objective of the project is to develop and deploy nano-satellite and to use it for monitoring the ecology of Chhotanagpur plateau . Complete software development on

the ROS platform.

BALLOON SATELLITE -2 JUNE 2015 - AUGUST 2015

HEAD OF ONBOARD SOFTWARE TEAM

Designed a python server integrated with MongoDB to store all sensor data and to write C++ library to convert all gas sensors data to a JSON packet on a UDOO devlopment

BALLOON SATELLITE -1 JUNE 2014 - AUGUST 2014

MEMBER OF COMMUNICATION DESIGN AND SENSOR INTEGRATION TEAM

Designed a GSM based communication system to send all sensor data to a python server

for balloon satellite-1 and take the GPS data to locate in google map.

WORK EXPERIENCE

SUMMER 2016 INTERNSHIP AT EXABIT SYSTEM, BANGALORE

> I did an internship at eXabit System, Bangalore, for two and Half months under the guidance of Mr. Bibhuti kar . During my tenure here I worked on ultrasonic flow meter

and IOT website design.

DECEMBER -2015 - PRESENT

AUV PROTOTYPE DESIGNING AT TOW-BOTIC SYSTEMS PVT LTD, MUMBAI Designing a ROV prototype designed for a startup named Tow-botic Systems Pvt Ltd, with Mr .Gary Vaz. I am the Technical adviserand Software Stack Developer (Simulation + ROS

node design) for the company .

TECHNICAL SKILLS

C • C++ • Python • Matlab • Embedded C General Programming:

ROS(Robotic Operating System) • Opencv • ns3(Network Simulator) Packages:

Operating System: Linux(Ubuntu, RHEL)

Other: Algorithm Design • Device Driver • ORACLE

SOFT SKILLS

English - Professional Fluency LANGUAGES

> Hindi - Basic Fluency Odia - Mother Tongue

SOFT SKILLS Leadership

Doing various electonics stuff Gaming and Game Design

EXTRA CURRICULAR ACTIVITIES

TEAM TIBURON Team Captain, 2015 - present

AUTONOMOUS UNDERWATER VEHICLE team of NIT, Rourkela

CYBORG CLUB Coding Team Head, 2015-present

Robotics and autonomous club of NIT, Rourkela

ECO-KART TEAM Innovation Team Head, 2014-2015

Nominated for best innovation award in Eco-Kart Competition

SCHOLARSHIPS AND CERTIFICATES

JANUARY 2014 Eco-Kart team - top 14/120 ,Innovation award - top 3/80 NOVEMBER 2015 AUV Team, Competition organised by NIIOT - Finalist Sherlock, Sheldon Event, kshitij, IIT Kharagpur - Winner JANUARY 2016 FEBRUARY 2016 Save - 2016 , Competition organised by NIIOT - Sortlisted

INTERESTS AND ACTIVITIES

Software Development, Algorithm Design, Machine Learning, Image Processing, System Programming, Linux Kernel, Robotics

Coding , Gaming , Robotics Projects