Prabin Kumar Rath

PERSONAL DATA

DATE OF BIRTH:	20 September 1998
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CAREER OBJECTIVE

Software engineer with expertise in product development looking to join an organization where strong project management and analytic skills will be useful in the delivery of products which meet user needs.

EDUCATION

CURRENT   B.Tech COMPUTER SCIENCE AND ENGINEERING,
National Institute Of Technology, Rourkela
Advisor: Dr. Sambit BAKSHI
CGPA: 8.72/10

2016   Intermediate in SCIENCE,
Mother's Public School, Bhubaneswar
PERCENTAGE: 94.2

2014   Matriculation ,
St.Xavier's High School
PERCENTAGE: 95 (CGPA-10)

COLLABORATIVE PROJECTS

AUV (AUTONOMOUS UNDERWATER VEHICLE) — DECEMBER 2016 - PRESENT
Worked on the software development for the AUV (Team Tiburon)
Contributed in development of :-
Real Time Dynamic Thrust Vectoring. On board IMU data acquisition for self positioning. UI for remote monitoring. Computer Vision algorithms implementation for under water image processing.

AUTONOMOUS CHESS PLAYING BOT — OCTOBER 2017 - PRESENT
Developed the control system for the bot.
Contributed in development of :-
Computer Vision algorithms for user move detection from an overhead camera. UI for user-system interaction. Usual game feature implementations like Save,Undo,Restart along with a robust software to handle system crash. Arduino codes for Autonomous piece movement on the physical board.

Personal Projects

2D Dot Matrix Printer	DIY Project Developed a 2D printer that can print letters and emojis on paper.
8*8*8 LED cube	DIY Project Developed a LED cube for various 3D pattern visualization.
Room Automation Module	DIY Project A Room Automation Module facilitating Web, Bluetooth, and IR control to user for controlling Home electrical appliances remotely.
Under-water ROV	DIY Project Developed an under-water bot capable of moving freely and picking up objects inside water.
Line Follower Bot with IR control	DIY Project Developed an autonomous bot capable of following black/white lines (curved, straight, looped etc.) on white/black surface. IR control bot can be controlled from IR remotes.
Semi Autonomous Bot	DIY Project A Bluetooth controlled wireless bot that could transfer blocks of variable weights by sensing them with the help of a FSR(for weight detection).
Adaptive Rough Terran Bot	DIY Project Developed a manual bot capable of changing inter-wheel distance so as to cover roads of variable width and capable of gripping and lifting objects.

Work Experience

December 2017 - January 2018	Phoenix Robotix Worked for the development of a pollution monitoring device to be deployed in cities for real time pollution data analysis.

Technical Skills

General Programming:	C++, Core Java, C, Python
Databases:	Oracle XE, MySQL
Frameworks:	ROS(Robot Operating System), Qt, Open CV, AWT-Swing
Other Software:	Matlab, Arduino, MS Office, MS Powerpoint, MS Excel, Latex

Soft Skills

Languages	English - Professional Fluency Hindi - Basic Fluency Odia - Mother Tongue
Soft Skills	Teamwork Leadership Creative thinking Critical Analysis

Extra Curricular Activities

Cyborg Robotics and Automation Society	*Senior Member , 2016 - Present* IGV(Intelligent Ground Vehicle) - Project Leader
OpenCode	*Vice President* Open Source Community of NIT Rourkela
Innovision 2017	*Event Organizer* Tread-O-Quest Line Following Event
Create Classes	*Instructor* Annual Robotics learning classes by Cyborg

Scholarships and Certificates

January 2017	KSHITIJ 2017 Semi Autonomous Robotics event, IIT Kharagpur - 3rd
March 2017	MINARE 2017 Manual Robotics event, NIT Rourkela - 3rd
June 2018	Aerial Robotics(Coursera.org), University of Pennsylvania

Interests and Activities

Interest:	Robotics, Software Development, Teaching
Hobbies:	DIY(Do It Yourself) Projects, Reading blogs, Listening music, Playing Computer Games