ANSON PAUL
ROBOTICS SOFTWARE ENGINEER

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CAREER OBJECTIVE

To be part of an organization that will allow me to take full advantage of my passion and experience in developing new technologies especially in the field of robotics engineering.

BASIC ACADEMIC CREDENTIALS

DEGREE	BOARD/UNIVERSITY	INSTITUTE	YEAR	PERCENTAGE/ CGPA
MASTERS IN ROBOTICS ENGINEERING	DIAT, DU, DRDO	DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY	2020-2022	8
BTECH IN MECHANICAL ENGINEERING	KERALA TECHNOLOGICAL UNIVERSITY	NSS COLLEGE OF ENGINEERING	2015-2019	7.3
CLASS XII	HSC	ST. ANTONYS HSS MALA	2013-2015	97.6%
CLASS X	SSLC	V.J.E.M.H.S ARIPALAM	2012-2013	100%

INTERNSHIPS

SSINNOVATIONS, Gurugram, Delhi, India-Robotics Software Intern June 2021 to Present

- Conversion of the created models into urdf and other types for robotic simulation software's like Actin, ROS, V-rep & MSC Adams.
- Finding simulation results including torques and analysing the results.
- Creation of prototype for proof of concept using 3d printing.
- Developed a tracking application in c++ and conducted the testing of application.
- Developed a curve fitting algorithm in python using machine learning for friction compensation purposes.
- Worked with Opti track trio/Duo for Indoor localization purpose.
- Creating Mechanical designs for different prototype purposes.
- Creations of 3d models for the proposed design using Solid works & Creo.
- Creation of engineering drawings with GD&T for manufacturing.
- Have good knowledge in Design for Manufacturing (DFM) and Design for Assembly (DFA).

ACADEMIC PROJECTS

Master's Degree Projects

- **MAJOR-**Development of a tracking system for indoor Positioning of modular robots using optical tracking system.

  A tracking system using optical tracking solving the following features was developed using c++ for indoor positioning which can be used in ware house applications to solve real life problems like,

  - Collision Detection
  - Path Planning
  - Distance measurement

- Human Robot collaboration
- Robot Robot collaboration
- Human safety

- **MINOR-** Mapping of indoor isolated environments using Autonomous mobile robot.

  Created a mobile robot in Solid works converted that too urdf and imported and simulated it in ROS,Gazebo,Rviz and using ROS packages was able to map indoor custom environment

  Software's used

  Solid works, ROS, Gazebo, Rviz

Bachelors Projects

- **MAJOR -STEPPED SOLAR STILL**
  A Performance Analysis Comparison Between Stepped Solar Still Over Conventional Solar Still Which Includes Experimental Data Analysis & Simulation Using Ansys Fluent.
- **MNIOR -REVERSE LOCKING MECHANISM DESIGN**
  A Reverse Locking Mechanism Is Designed Using Ratchet and Pinion Mechanism as Part of College Mini Project.

COURSES

- ROS for Beginners: Basics, Motion, and OpenCV, UDEMY
- SolidWorks Essential Training
- Geometric dimensioning and tolerancing
- Complete multibody dynamics with MSC Adams
- Python Basics, UNIVERSITY OF MICHIGAN
- Introduction to Matlab-Coursera

SOFTWARE SKILLS

- SOLIDWORKS
- AUTOCAD
- FORWARD AND INVERSE KINEMATICS
- MICROSOFT OFFICE
- MATLAB
- V-REP
- ROS
- C++
- ANSYS
- ACTIN
- MSC ADAMS
- PYTHON

TECHNICAL SKILLS

- Finite Element Analysis
- Robot Kinematics and Dynamics
- 3D printing
- DFM, DFA
- Machine Design
- Arduino

AWARDS AND ACHIEVEMENTS

- Hands On Experience On ABB-IR2000 6 DOF Robot.
- Qualified in gate 2020 exam with score 512.
- Line Follower Robot - Participated In Line Follower Robot Competition At IIST Conscientia.
- Hydro Rocket Launcher - Participated Hydro Rocket Launcher Competition at IIST Conscientia Techfest.
- Co-Ordinator - Coordinated National Level Techfest Dyuksha At Nss College Of Engineering.

PERSONAL DETAILS

Fathers Name	: P V Paul
Date Of Birth	: 09th October 1997
Gender	: Male

Languages Known	: English, Hindi, Malayalam, Tamil
Passport No	: U5215871
Nationality	: Indian

PEROSNAL SKILLS

- Time management
- Goal oriented
- Work ethic
- Problem solving
- Hardworking
- Team player

PROJECTS DONE

- Using GSM Sim800L module for creation of a security alarm system.
- Using Arduino, Dc motor, L298H bridge for motor controlling
- Created a low-cost system using lasers for checking the parallelism with a reference
- Created a 3d Printed mechanism for the rotation of laser
  Project includes-Using an absolute encoder, Laser, Gear mechanism.
  Software's used-Actin, Arduino IDE.
- Motorized the above concept using a potentiometer and a Dc motor with built-in encoder.
- Proficient in creating 3d models in solid works.
- Proficient in C++ and python Programming languages

DECLARATION

I do hereby declare that the above information is true to the best of my knowledge.

ANSON PAUL