

Undergraduate Engineer

ARNAV BANSAL

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Date of Birth: 28th October, 1996

Objective

A challenging growth-oriented position in an environment that encourages continuous learning and creativity, provides exposure to new ideas, and stimulates personal and professional growth.

Skills

Programming/Networking

Python, C/C++, MySQL, VB
.NET, CI/CD Pipelines

Microcontroller/Microprocessor

ATMega Series, Arduino
Raspberry Pi

Languages

Hindi (Native Language),
English (Working Proficiency:
C1), German (Intermediate
Proficiency: B1)

Industrial Automation Protocols

MODBUS (RTU and TCP/IP),
CANBUS

Work Experience

JOB EXPERIENCE

- **ASSA ABLOY Austria GmbH – Python QA Developer (April, 2024 – Present: Austria)** – Working on End-to-End testing of electronic access systems, gained experience in android testing, BLE interface and CI/CD pipelines. Skills upgraded in python, robot framework.
- **IGT GmbH – Test Automation Engineer – Electronic Table Games (September 2022 – March, 2024: Austria)** – Worked on Electronic Table Games testing, UI/UX and logic. Other responsibilities include requirement investigations and jurisdiction-based testing.
- **Rebug GmbH – Test Automation Engineer (November 2019 – August 2022: Austria)** – Worked on embedded C++ along with python integration. Also, worked as a module tester gaining experience in tools like VectorCAST and Jenkins -> Module Testing, Unit Testing primarily on embedded C in automotive domain. Brief experience of UI testing (using Selenium over Python).
- **Vizen Solutions Private Limited – Engineer (February 2019 – August 2019: India)** – Worked primarily on the integration of Raspberry Pi with Industrial Equipment for development of IoT based Real-time monitoring systems.
- **FlipRobotics Private Limited – R&D Engineer (June 2018 – January 2019: India)** – Worked primarily on the Control System Design of Robots with major focus on integration and PCB design. Sole rapid prototyping experience.

INTERNSHIPS

- **FlipRobotics Private Limited - Engineer Intern (January 2018 – June 2018: India)** – Worked on RTOS, Embedded Systems (CC1350 by Texas Instruments) and gained PCB Designing Experience.
- **Minda Automotive Solutions Limited – Junior Engineer Intern (June 2017 – July 2017: India)** - Worked on Remote Control FOB Key and Transponders, Engine Immobilizer Technologies.
- **BHEL – Junior Engineer Intern (June 2016 – July 2016: India)** - Worked on Control and Instrumentation of Power Plants - DMCW System Controls.

Education Qualification

MASTER'S IN INFORMATION AND COMPUTER SCIENCE - Technische Universität Graz, Austria (2019 - Present)

- Major: Embedded and Automotive Systems
- Minor: Microelectronics and IC Design

BACHELOR'S IN ELECTRONICS AND COMMUNICATION - Panjab University SSG Regional Centre, Hoshiarpur, India (2014-2018)

- CGPA: 6.99/10
- Member of Technical Team and participated in numerous Technical Competitions in different institutions.

SENIOR EDUCATION - Apeejay School, Noida (2013-2014)

- Aggregate – 88.4% (CBSE Board)
- Graduated 12th grade with distinction in Physics (95%), Chemistry (95%), Mathematics (90%) and Computer Science (97%).

HIGHER EDUCATION - Apeejay School, Noida (2010-2012)

- CGPA – 8.8 (CBSE Board)
- President of Robotics Club and Founder of Manual Robotics Club.

Accomplishments

CERTIFICATIONS

- ISTQB: Certified Tester Foundation Level
- ECQA: Functional Safety Manager
- eDX: Introduction to Python and Computer Science

PUBLICATIONS

- Crane Intelligence with Remote Monitoring via Internet – Research Paper (Research Journal of Engineering and Technology (ISBN Print: 0976-2973, ISBN Online: 2321-581X, DOI: [10.5958/2321-581X.2017.00056.3](https://doi.org/10.5958/2321-581X.2017.00056.3) – December 2017, Volume: 8, Issue: 4)
- Optical Theremin Musical Instrument using Arduino Uno – Article (Electronics For You – December 2017, Volume: 49, Number 12)
- Arduino based Windows PC Volume Remote Control – Article (Electronics For You – May 2017, Volume: 49, Number 05)
- Ultrasonic Distance Meter using Raspberry Pi 2 – Article (Electronics For You – January 2017, Volume: 49, Number 01)
- XBee Interfacing using Raspberry Pi 2 – Article (Electronics For You – June 2016, Volume: 48, Number 06)
- Crane Intelligence – Conference Paper (National Conference on Advancements in Electronics and Computer Applications - 2016)

PROJECTS

- AAL Fault App – Android (Node.JS and AngularJS)
- Remote Monitoring of Industrial Devices (<https://youtu.be/tkCSBnWEV5c>)
- Crane Intelligence with Remote Monitoring System
- Arduino Mega based Goods Lift System (Updated Design - <https://github.com/arnavbansal95/LiftCon2.0>)
- Got shortlisted for Renesas GR Peach All India Design Contest for the project – Remote Monitoring of Industrial Devices
- Showcased Crane Intelligence with Remote Monitoring System in CeMAT 2015 (Pragati Maidan, New Delhi)
- Selected as Project Presenter at Delhi Mini Maker Faire 2016 (In Association with Make Magazine) for project - Remote Monitoring of Industrial Devices
- Designed an Opto-isolated Signal Converter PCB for an electronics company, the PCBs were installed in Sri Lanka and are still running in pristine order.