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Prashant Serai

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EMPLOYMENT

Scientific Officer C — **Bhabha Atomic Research Centre** — **Aug 2012 – July 2015**

Board of Radiation and Isotope Technology

- Development and Implementation of Localization algorithms for Mobile Robots:
  Implemented Bayesian Monte Carlo Localization on proprietary SmartNAV robot. Developed techniques to modify the sensor model for tackling the presence of Unexpected Obstacles in the environment.
- Development of Control Software and Electronics for Radioisotope Generator product:
  A PC based system using USB I/O Modules was developed. Was individually responsible for the full system including User interface, Communication API, to Electronics design. The system goals were to achieve easy operation and automation with high reliability. The software was developed in C# using Visual Studio.

Student Project Leader — **University of Mumbai** — **Fall 2009 – Spring 2010**

VESIT Interdisciplinary R & D Centre

- Led a team of 12 (undergraduate) students for a project on development of an Eco-friendly Dishwasher.

Technical Intern — **Flareum Solar Technologies** — **Summer 2010**

- Worked on powering Telecom Towers using Solar Energy. Analyzed ideas and came up with new ones to increase the utilization of solar energy, reduce energy use and wastage and calculated their Payback periods.

EDUCATION

Columbus, OH — **The Ohio State University** — **Fall 2015 – present**

- M.S.E. in Computer Science Engineering, May 2017 (expected).
- Courses: Artificial Intelligence, Computer Architecture, Intro to Databases, Linear Algebra.

Mumbai, India — **University of Mumbai** — **Fall 2009 – Spring 2012**

- B.S.E. in Electronics & Telecommunications Engineering, May 2012. GPA: 3.62 (converted by WES)
- Courses: Algorithms, Comp. Architecture, Software Engineering, Embedded Systems, Computer Communication Networks, Data Compression and Encryption, Digital Logic Design, Image Processing, Engineering Entrepreneurship, Calculus.

PROJECTS

- **Disease Diagnosis using Microscopic Image Processing** (2012). A 125$ low cost prototype device capable of microscopic slide digitization with algorithms to do Blood cell counting and Malaria detection on the acquired images. Awarded by IIT Bombay and Somaiya Trust at national level competitions as runner up. MATLAB
- **Qualification of RF Cavities** (2013). Library for automating the experiments for compensated Q factor measurements by interfacing with Vector Network Analyzer. C#, SCPI
- **e-Ordering System** (2008). Visual Basic application to present menu, take order and generate bill. VB
- **Smart Farming System** (2009). Smart device for Data based scheduling of irrigation & other tasks. C

SELECTED AWARDS AND ACHIEVEMENTS

- Awarded JRD Tata scholarship in the academic year 2009-10 on the basis of scholastic performance.
- Adjudged 'Best Member of the Year', by chapter of IEEE at VESIT out of 200 members.
- Winner, Maharashtra State Board (MSBTE) Electronics Technical Quiz at the State level.
- Winner, The Consultant – VJTI out of 50 teams including many from top-20 ranked B-schools in India.
- Runner Up, Deloitte-JA Titan Business Simulation Competition 2011, out of 60 teams.
- Won nine other technical competitions and six literary competitions including Debates.

LANGUAGES AND TECHNOLOGIES

- Python, C#, C, Java
- MATLAB, Visual Studio, Git