

Omkar Arvind Shaligram
Mechanical Engineering
Indian Institute of Technology, Bombay
Specialization: Manufacturing Engineering

113100056 M.Tech. Male

DOB: 23/05/1989

Examination	University	Institute	Year	CPI / %	
Post Graduation	IIT Bombay	IIT Bombay	2012	9.40	
Undergraduate Specialization: Mechanical					
Graduation	Pune University	College of Engineering, Pune (COEP)	2010	9.06	

#### PROFESSIONAL EXPERIENCE

#### **Eaton India Engineering Centre**

Associate Engineer [Jul 10 - Jun 11]

- Worked with the Vehicle Group in Value Engineering team to reduce cost of transmission system.
- Redesigned the Clutch Flywheel Ring to save \$250,000 annually; Designed Keyless Transmission

#### SCHOLASTIC ACHIEVEMENTS

•	Department Rank 2 in Mtech Manufacturing Engineering, IIT Bombay	[2012]
•	Received Forbes Marshal Most Outstanding BTech Project award in mechanical department	[2010]
•	1 <sup>st</sup> in the state in Mathematics (100% marks) - 12 <sup>th</sup> Std; 99% in Biology	[2006]
•	2 <sup>nd</sup> in West India zone in Japanese Language Proficiency Test 3Q (Level 3) score- 97.5%	[2008]

### **KEY PROJECTS**

**Developing a Parallel Kinematic Manipulator (PKM) robot for efficient CNC machining** [May12-Present] [Guide: Prof S S Pande, Mechanical Department IIT Bombay] [Masters Dissertation]

- Interdisciplinary project involving Design, Fabrication and Control of PKM.
- Currently studying various configurations of robots. **Simulating** the kinematics using MATLAB.
- Further work involves mechanical design, prototype manufacturing, actuator and sensor selection and system integration, developing control algorithm & implementing it on an embedded controller

### **Application of CAD CAM in Jewellery**

[Aug11-Nov11]

- Visited 'Imaginarium Technologies' to understand & compare jewellery making using CAD & RP;
- Studied advancements: Reverse Engineering, Intelligent Jewellery Design, Virtual Jewellery shop.

## **Development of flying robot (Quadrotor) for surveillance** [BTech Project]

[Jul 09 - May 10]

- Initiated and executed first stage of a big project.
- Worked on concept selection using QFD & AHP, propulsion system design, electronics development & Control, fabrication of critical parts in **MIT**(Massachusetts)**FABLAB** at COEP.

## POSITIONS OF RESPONSIBILITY

# **Institute Overall Coordinator, Student Companion Program**, IIT Bombay

[May12-Present]

• Leading a team of 16 department coordinators and 70 student mentors to manage buddy programs, Open Course Ware, Freshmen Forum etc. also organised Institute orientation for freshmen

### Overall Co-Team Leader of ROBOCON team, COEP

[May 08-Mar 10]

• Led a team of 30 students from different years and specialisations for 2 years.

#### Accounts Head, Mind-Spark, Technical Festival of COEP

[May 09- May10]

Managed the budget of Rs 18 lakhs. with a system to record cashflows; conducted internal audit.

# **EXTRA-CURRICULAR ACHIEVEMENTS**

- Music: Praveshika Purna (Level 3) in Tabla and Prarambhik(Level 1) in Harmonium
- **Sports:** Sculler of Diamond(Fibre Shell Boat) ,COEP -Trekked Deo Tibba Base Camp, Himalaya; Participant Swimming Marathon, IIT Bombay
- Literary Arts: Debating group member COEP
- Social Service: Taught Robotics to economically weak school children through NGO Bhagini Nivedita