

Moaz Momin

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Career Objective

An inquisitive, creative and result oriented professional with proven technical skills, who aims to become a well-honed product design engineer with an added experience of additive manufacturing technology.

Education

- 2012 – 2015 **Datta Meghe College of Engineering, Navi-Mumbai, India (University of Mumbai)**
Bachelor's in Mechanical Engineering - First Class.
- 2008 – 2012 **Agnel Polytechnic, Navi-Mumbai, India (MSBTE)**
Diploma in Mechanical Engineering (sandwich pattern) – First Class with Distinction.

Work experience

Feb 2016 – Present **Product Design & Development Engineer**, DimensionNXG Pvt. Ltd, Mumbai, India.

- To identify the needs and goals for product, from function to aesthetics.
- Research design options and perform experiments to determine potential design feasibility.
- To create conceptual design, CAD model and fabricate CAD models using additive manufacturing technology.
- To rapid prototype and test conceptual designs and then product validation, usability testing.
- Evaluate product non-conformance and recommend design modifications.
- 3D Printers maintenance.
- Also, successfully executed 3D Printing services in the initial phase as Design & 3D Printing Service Engineer.
- Create and maintain service information in the company enterprise database.

Aug 2015 – Jan 2016 **Junior Research Fellow**, Indian Institute of Technology-Bombay, Mumbai, India.

- Conceptual sketching & CAD modelling of projects.
- Support procurement for major equipment & materials.
- Assist co-researchers in the operations and maintenance of the machines (SOM, 3Axis & 5-Axis machines).
- Member of Technical Board meet.

Internships (*Indust. training*)

Dec 2011 – May 2012 **Maintenance Engineer Intern**, Crompton Greaves Ltd., Mumbai, India.

Monitor the activities required for the maintenance of machines to provide accurate information of data to make effective decision making. Supervise the maintenance of VPD Plant, Tuboly Winding Machine, CNC George and Slitting Machine. Preparation of daily reports.

Jun 2010 – Nov 2010 **Design Engineer Intern**, Indian Institute of Technology-Bombay, Mumbai, India.

Conceptual sketching & CAD modelling of project and development of the same, using rapid prototyping & conventional manufacturing technologies. Handle, operate & maintain machines like Argo 3-axis CNC, Hermle C30U 5-axis CNC, Haimer Shrink Fit, Fused Deposition Modelling, Segmented Object Manufacturing. Preparation of daily reports.

Projects

Aug 2017 – Present **Augmented reality headset**

CAD modelling various versions of product sketched and developing prototype using additive manufacturing to validate conceptual sketch & CAD model.

Jan 2017 – Jul 2017 **Companion and telepresence robot**

Sketched & CAD modelled robot along with development, using rapid prototyping technique for improving human lifestyle.

Aug 2016 – Dec 2016 **Virtual camera system**

Designed and fabricated various versions of VCS using additive manufacturing to enable naturalistic storyboarding for computer graphics industry.

Feb 2016 – Jul 2016 **Mixed reality headset**

Designed and manufactured different types of headsets using fused deposition modelling technique, meant for multipurpose applications.

Aug 2015 – Jan 2016 **Aqua treadmill**

Researched, sketched and CAD modelled first version of Aqua Treadmill for physical therapy, sports medicine & conditioning of patients and individuals.

Jun 2014 – May 2015 **Achieving low temperature air using compressor & turbine unit** (Academic)

Prototype the unit using EPS foam and demonstrated it to staff by fulfilling the objective to make a system with high stability and reliability for cryogenic applications.

Dec 2011 – May 2012 **Maintenance of slitting machine** (Indust. training)

Replaced roller bearing of a slitting machine to improve slitting efficiency of tin sheets with high precision and accuracy.

July 2011 – Dec 2011 **Pneumatic jig** (Academic)

Designed and manufactured pneumatic jig for grinding machine.

Jun 2010 – Nov 2010 **Automated leaf cutting machine** (Indust. training)

Was part of the team involved in conceptual sketching and CAD modelling of automated leaf cutting machine, a research project undertaken by IIT-Bombay for Godfrey Phillips India.

Computer skills

- Design tools – SolidWorks, Autodesk 123D, AutoCAD (basics), Netfabb, Cura, Ansys.
- 3D design, 3D Printing & services, 3D Printers maintenance.
- Prototyping, Reverse Engineering, Prop Building & Carpentry.

Awards and achievements

- Honoured with Best Student Award for the Year 2006-2007.
- Secured Third prize in Inter-School Drama Competition.
- Participated in Inter-School Singing Competition.

Workshops

2nd – 3rd Sep 2016 Conducted workshops & seminars on 3D Design & 3D Printing at Vidyalankar Institute of Technology (Mumbai).

2nd – 4th Nov 2015 Coordinated the CEP workshop on Rapid Prototyping and Manufacturing held at the Indian Institute of Technology-Bombay.

Languages known

English (fluent), Urdu (mother tongue), Arabic, Hindi, Marathi.

Interests

Singing, trekking, socialising and traveling.

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