

# SMITH ANTONY

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## PROFESSIONAL PROFILE

Mechanical design engineer with solid expertise in the conception, creation, development, and demonstration of Innovative mechanical designs, highly experienced in the areas of **part design, AutoCad, SOLIDWORKS modeling, kinematics, Fabrication and Die and tool design.** Proven ability to apply general principles of physics and engineering to provide technically feasible solutions for complex engineering problems. In-depth knowledge of manufacturing procedures, plant operations, machine capabilities, and mass production requirements. Design proficiencies include:

- Research and development
- 2D,3D Solid Modeling
- Sheet Metal design
- Machine design
- Assembly modelling
- Selection of standard parts such as bearings, fasteners etc.
- Strong knowledge in GD&T, fits and ASME standards
- Material selection
- Jigs and fixture designing
- Manufacturing process planning
- Problem solving for a better and feasible design
- Design of conveyors, elevators and SPM's
- Strong analytical & creative process Thinking
- Prototyping & Testing
- Cost Estimation
- Reverse Engineering
- Die and tool design
- Draughting and issuing of drawings for inspection & manufacturing
- Plant layout & machinery layout creation
- Fabrication

## **ACADEMIC PROFILE:**

- **2010-2014** bachelor's degree  
Mechanical Engineering, Anna University.

## **WORK EXPERIENCE:**

- **TOTAL YEARS OF WORK EXPERIENCE:** 4.3 Years.
  
- **Abdullah Ahmed Al Muziel Industries W.L.L. Bahrain**  
**Design Engineer & Foreman**, June 2019 to current
  - Generated and distributed die design for investment casting using SOLIDWORKS
  - Support, planning for development of machining jobs, issuing drawings for inspection.
  - Assist Fabrication works, Planning for fabrication parts, issuing 2D drawings
  - Designed dies for different types of Cam locks, stub ends, and other pipe fittings
  - Planning of fabrication jobs, support fabrication team for easy manufacturing
  - Issuing of 3D step files to machine operators.
  - Customer interaction and supporting internal team to create and provide Good machined, fabricated and casting components.
  - Process planning, to create and deliver the components on time
  
- **SEPACK INDIA PVT. LTD., Cochin**  
**Mechanical Design Engineer**, May 2017– February 2019
  - Responsible for the conception, design and development of:
    - packaging machineries,
    - Special purpose machine (SPM)'s
    - Conveyors and elevators using **Solid works 2018 and AutoCAD.**

- Successfully reverse engineered & tested sophisticated machines such as automatic strapping machine, which have more than 300 parts and complex mechanisms.
- Reverse engineered pedal sealing machine.
- Designed various plastic components for automatic strapping machine, and several sealing machines.
- Developed various concept drawings for customers in 3d and rendered it using key shot and Photoshop.
- Acquired knowledge in designing gears, chain drives and belt drives. And implemented on several machines and conveyors
- Interacting with suppliers for manufacturing feasibility, hence helping the organization to reduce the cost for manufacturing and making the process easy.
- Also indulged in the selection of:
  - Electrical parts,
  - Bearings, fasteners, standard sections and channels.
  - Material selection

➤ **BEST FORGINGS INDIA PVT. LTD., Coimbatore**

**Mechanical Design Engineer, May 2016 – February 2017**

**Specialized in,**

- I have developed the **TOOL and DIE Design** for the forging purpose by using **Solid works** 2016. Further roles were,
- Having knowledge in Solid works, I myself indulged in the calculation of
  - Forged weight,
  - Input weight,
  - Raw material size and
  - Die size.
- Issuing of drawings to the responsible fields of production.
- Changing of designs for simplifying the production process.
- Designing fixtures for machining of components.

➤ **G.J ENGINEERING, Mysore**

**Assistant Quality Engineer, October 2014 – April 2016**

My job profile was, **Generalized in,**

- Inspection and measuring of machined components.
- Handling of different calibers and different kinds of measuring equipment's like Vernier, Micrometer and Slip gauge.

## **CAREER ACHIEVEMENTS:**

- Enhancement of the die design.
- Development of Samples.
- Zero percent rejection.
- Produced a range of 2D and 3D visualizations.

## **TECHNICAL SKILLS**

- **AutoCAD**
- **Solid works**
- **Pro/E.**
- **Product development**
- **Quality assurance**
- **Project Management**
- **Team Leadership**
- **Workflow Management**

## **PERSONAL SKILLS**

- Good communication skills
- Problem solving capabilities
- Leadership qualities and a good team player
- Time management
- Adaptable to any situation
- Ability to balance both success and failure
- Ability to work under pressure
- Effective technical skills
- Commercial awareness
- Interpersonal skills

## **AREA OF INTEREST:**

- Hardcore reader (mostly fictions).
- Meeting new people, travelling, visiting new places and explore new things.
- Playing video games and SUDOKU

- Also good at Badminton, Carroms, Swimming.

### **CAREER PROJECTS:**

I have been tirelessly involved in developing my career projects that comprises a greater part in designing and development. The projects that I developed were,

- Inspection conveyor,
- Reverse Engineered auto strapping machine,
- Carton taping machine,
- Foot sealer machine.
- Scooping type Bucket elevator.
- Bucket Elevator.
- Sileage packing machine.
- Sophisticated Die & tool for forging purpose, for parts of train, Arms, and heavy machineries.
- Die for Investment Casting, for pipe fittings, machine parts.

### **PERSONAL DETAILS**

D.O.B : 16-May-1992

Nationality : Indian

Current location : Bahrain

Language known : English [R,W,S], Malayalam [R,W,S], Tamil[R,S], Hindi [R,W,S]

Marital Status : Single

Driving License : No

**References Are Available On Request.**

### **DECLARATION:**

I hereby declare that the above mentioned information is correct to my knowledge & I bear the responsibility for the correctness of the above mentioned particulars.

PLACE: Bahrain

DATE:

**SMITH ANTONY**