

## ABRAHAM PALATY

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VISA: U.A.E., VISIT visa valid till 3<sup>rd</sup> Nov 2015  
U.S.A., B1, Valid till 2023

Driving License: U.A.E.

### CAREER OBJECTIVE:

1. Utilize technical and managerial skills in an engineering firm to develop novel ideas and deliver good quality energy efficient engineering solutions.
2. Expose myself to new ideas, experiences and technology to learn and innovate.

### SUMMARY:

1. More than 5 years of experience leading and motivating team of engineers to develop & execute engineering projects of various levels of complexity and size.
2. In depth knowledge and practical exposure to design and develop special purpose machines and automated solutions tailored to fit customer requirements.
3. Trained in California, USA, on Prototype / machine building of international standards.
4. Co-Inventor, 3 patents in the field of product improvement & manufacturing process change.
5. Excellent academic track records. Was placed within the top 1% of graduate engineers in India to gain admission for master's program.
6. Consistently demonstrated clarity of communication, good listening skills, attention to detail approach and strong analytical skills in solving engineering issues.
7. Experienced in planning and coordinating activities between multicultural teams across various time zones. ( U.S.A., Singapore, S. Korea, Japan, China)
8. Excellent hands on experience in all major design and analysis CAD packages.

### EDUCATION:

Institution	Course	Duration
Indian Institute of Technology, Bombay.	Master of Technology. Mechanical Engineering.	2007-2009
Kannur University, India.	Bachelor of Technology. Mechanical Engineering.	2002-2006

### PROFESSIONAL EXPERIENCE (+5 years)

Name of Organization	Role	Industry	Duration
Al Nasr Engineering	Lead Mechanical Engineer. SPM and Automation.	Manufacturing.	1 Year, 2 months
Applied Materials Inc.	Technical Lead. Mechanical Engineering.	Semiconductor Equipment Mfg.	4 years, 2 months

Senior Project Engineer,

(April 2014 – current)

Al Nasr Engineering Est. Dubai.

Conceptualize and design SPMs, robot integrated workcells and hydrotesters. (see pg.4)

Moving gantry to automate welding.	Robotic welding work cell	Custom trolleys
Robot integrated painting unit. (automatic)	Coil resizing machine. ( process scrap Aluminium coils)	Hydro testers (pipe & couplers)

- a. Attend the first meeting with customer to understand their requirements and convert them to technical specifications.
- b. Lead and motivate a team of engineers (multiple disciplines) to develop workable concepts.
- c. Filter out workable ideas based on risks, price and availability of OEMs and manufacturing challenges.
- d. Foresee and add flexibility in design should the customer requirements deviate for better.
- e. Give inputs to the estimation team, analyze the risks and integration challenges to come up with a quote.
- f. Handle the technical and commercial negotiations.
- g. Plan the stages of project, cascade responsibilities to meet the deadline.
- h. Supervise decision making (technical and non-technical) during the manufacture.

Responsible for the delivery of tested, good quality, working equipment to the customer.

Technical Lead (Mechanical Engineering)

(March 2010 – April 2014)

Applied Materials, (Nano-manufacturing equipment supplier, HQ: California, US)

1. Design and Analysis
  - a. Appreciated for “analytical approach” and “attention to detail” qualities in solving engineering problems.
  - b. Involved in product development activities and good hands on experience handling various CAD packages (ANSYS, CFD ACE, Unigraphics, Solidworks).
  - c. Demonstrated clarity of thought and ability to hit the problem without losing focus.
  - d. Ability to give quick analysis and comparisons based on hand calculations.
2. Manufacturing process change
  - a. Analyze components and its manufacturing methods to reduce cost or improve quality to benefit customers.
  - b. Analyze and modify (if required) the new manufacturing process to make it refurbishment friendly.
  - c. Co-inventor for 3 patents, for new product concepts developed by team.
3. Address field failure and quality issues
  - a. Provide immediate solution to address field failures.
  - b. Analyze the failure to find out the root cause and initiate containment procedure to fix the problem. Use RCA, Tolerance stack up, FMEA.
  - c. Containment action may even include design / spec changes.
  - d. Ability to work and coordinate with multi-disciplinary and multicultural workforce at different time zones. Make action plan for the engineering change management.

## KEY SKILLS:

1. Good design and analytical skills.
2. Good working knowledge on CAD softwares.  
Design : Unigraphics, Solidworks, Pro E.  
Analysis : ANSYS, CFD ACE, Pro CAST.
3. Ability to perform quick hand calculations to aid in speedy decision making.
4. Organized and systematic approach towards solving any engineering problem.
5. Ability to cascade work effectively and motivate team members.

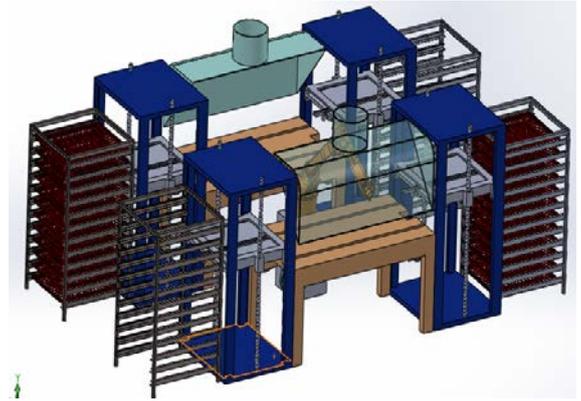
## PERSONAL INFORMATION:

1. Date of birth : 1<sup>st</sup> December 1984.
2. Nationality : Indian
3. Passport No. : G3508619
4. Availability to join : Immediate

## Design and development projects:

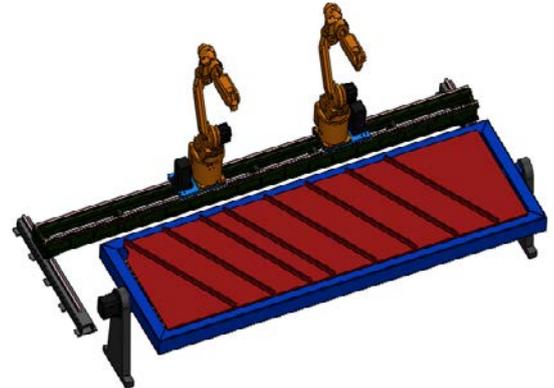
### 1. Robotic coating system.

- a. Designed based on the specific requirements of the customer. Robot to spray workpieces arranged on a tray moving intermittently on a conveyor.
- b. Fully automated except for the loading and unloading of the workpiece cassettes.
- c. PLC is used for material handling with minimum interactions with robot.



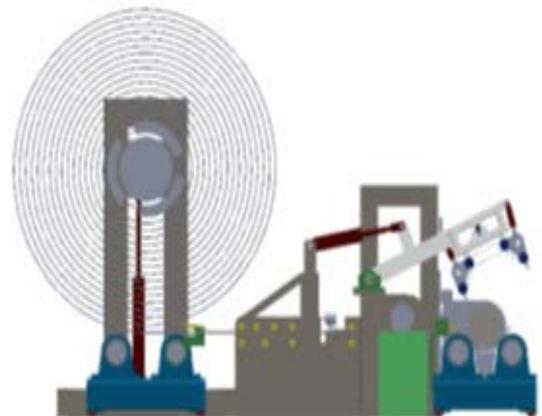
### 2. Robotic welding work cell.

- a. Designed based on the specific requirements of the customer.
- b. Employs two 6 axis robots selected based on the reach and payload to weld a plate like structure.
- c. Simple and cost effective design, two robots to minimize the cycle time.



### 3. Decoiling machine

- a. This is a special purpose machine designed to enable customer to convert scrap aluminum rolls of large diameter to multiple smaller rolls to suit the recycling furnace diameter.
- b. The system runs in fully automated mode as soon as the large roll is loaded.
- c. Being a part of scrap line, the mandrel is reengineered to minimize cost.
- d. All the actuators (hydraulic and electric) controlled by PLC based on feedbacks from sensors.



### 4. Hydrotesters for pipe and coupler testing.

5. CNC controlled welding gantry frame with single axis of motion.