NO.1 TRAINING & PLACEMENT UNIT

Bommanhalli & Madiwala - Bangalore

AN ISO 9001:2015 CERTIFIED COMPANY ®

CAD DESK
ITDesk
Where Success Begins

SINCE 2007

IN FOR TRAINING , DEVELOP SKILLS & LEAVE WITH JOB

WELCOME TO MECHANICAL CAD SOFTWARE TRAINING & PLACEMENTS

Managing Director

Varada Uday Bhaskar
ME Mechanical Engg. OU University
16+ Years of Exp

100% JOB Guarantee ★★★

75+ COMPANIES

Click website for Guaranteed Course Programs
https://caddeskbangalore-bommanhalli.com/placement-category

Click our website for Placed students & Partners
https://cadenggr.com/placement-services

Initiative of
Bhaskars Engineeing Design & IT Center

NO.1 TRAINING & PLACEMENT UNIT

CAD DESK ®
AN ISO 9001:2015 CERTIFIED COMPANY

IT Desk
Where Success Begins

SINCE 2007

Bommanhalli & Madiwala - Bangalore

CADDESK/ITDESK established in year 2007 has 20+ years of experience in Software Training of CAD/CAE/CAM/Full Stack/IT Software's .

We teach wide variety of Software's for Engineering & Degree Students CIVIL/ARCH./INTERIOR/MECH./PRODUCTION/AUTOMOBILE/ ELECTRICAL/PUC/DEGREE (B.com/BBA/BA/BSC/BCA/others)/ PG/MASTERS

CIVIL ENGINEERING SOFTWARES

- Auto CAD
- 3DS Max
- REVIT Structure
- REVIT Architecture
- REVIT MEP
- STAAD Pro
- Etabs
- V-Ray
- Google Sketch up
- Enscape
- Quantity Take off
- and others.

MECH.ENGINEERING SOFTWARES

- Auto CAD
- SolidWorks
- Catia
- NX Cad
- Nx Cam
- CREO
- Ansys WB
- REVIT MEP
- INVENTOR
- GD & T
- and others.

ELECTRICAL ENGG. SOFTWARES

- Auto CAD
- PLC/Scada
- Matlab
- Primavera
- And others.

IT ENGINEERING SOFTWARES

- MS Office
- Photoshop
- Corel Draw
- C language
- C++
- Core Java
- Advance Java
- Python
- Tally
- PHP
- .Net
- AWS
- SAP FICO/MM
- HTML
- JQuery
- My SQL
- Digital Marketing
- AI and others.

kindly note all the software's are not under Placement Category. For more details on the Mechanical CAD Placement Category courses, Please refer Page no. 6

NO.1 TRAINING & PLACEMENT UNIT

Bommanhalli & Madiwala - Bangalore

AN ISO 9001:2015 CERTIFIED COMPANY ®

CAD DESK

IT Desk
Where Success Begins

SINCE 2007

MECHANICAL CAD COURSES

AutoCAD 2d/3d: AutoCAD, a computer-aided design (CAD) software, allows for both 2D and 3D mechanical design and drafting. 2D drafting in AutoCAD offers precise control over lines, shapes, dimensions, and annotation.

3D allows for creating solid, surface, and mesh models, providing a more realistic and comprehensive representation of mechanical parts.

Solidworks: SolidWorks is a computer-aided design (CAD) and computer-aided engineering (CAE) software used for creating 3D models of various products and processes, including parts, assemblies, and finished goods

Catia : CATIA is a powerful, versatile CAD (Computer-Aided Design) software used across various industries for 3D modeling, simulation, and design.

It's primarily used to create, modify, and analyze complex products and systems before they are physically produced, enabling designers and engineers to visualize and optimize designs. CATIA also supports advanced features like surface modeling & Complex assembly design

Nx CAD: NX CAD is also a powerful, comprehensive Computer-Aided Design (CAD) software developed by Siemens Digital Industries Software

It's widely used for product design, engineering, and manufacturing across various industries, including automotive, aerospace, and electronics. NX CAD offers a wide range of features for 3D modeling, drafting, and simulation.

Gd & T: Geometric Dimensioning and Tolerancing, is a standardized system of symbols and rules used in engineering drawings to define and communicate the geometric characteristics and permissible variations of a physical object. It helps designers and manufacturers communicate the degree of accuracy and precision.

CONTENT OF THE MASTER CAD MECH. COURSE PROGRAM

AutoCAD 2d/3d:	SOLIDWORKS	GD & T

AutoCAD 2d/3d:

- AutoCAD Commands, Use of mouse and keyboard, File extensions, Limits (Li), Units (UN), selection, Views.
- 2d drafting: Drawing toolbar, Point (Po), Co-ordinate system, Line (L), Construction Line (XL), Polyline (PL), Ray, Point style.
- Circle (C), Ellipse (EL), Arc (A), Polygon (POL), Rectangle (Rec)
- Spline (SPL), Divide (Div), Measure (Mea), Donut (Do), Hatch (H), etc.
- Drafting Setting Tool bar
- Modifying tool bar
- Editing tool bar
- Annotations
- Styles manager
- Layer
- Properties
- Tool Palettes
- Parametric constraints
- Linking & Extraction
- Plotting
- 3d Modeling tools
- Solid editing tools

SOLIDWORKS

- Student will be starting from the GUI features, Design tree, Feature manager, keyboard & mouse uses.
- Sketch Entities
- Sketch modifying tools
- Part modeling
- Extrude, Extrude cuts, Revolve & Revolve cut
- Sweep, Sweep cut, Loft & Loft cut, fillet & chamfer.
- Reference Geometry - Plane, Point, Axis
- Rib, Shell, Draft, Patterns
- Curves, composite curve, Project curves, Helix & spiral
- Wrap, dome, mirror
- Assembly modeling
- Coincident, parallel, perpendicular, tangent etc
- Smart mates
- Replace, rotate, move component
- Mechanical mates
- Advance mates
- Dimensioning - Horizontal, Vertical, chamfer dimension center mark, Centerline.
- Surface modeling
- Sheet metal design
- Drafting module

GD & T

- Traditional Tolerance
- Angle's of Projections
- Cost of Drawing Error
- Methods of Dimensioning
- Understanding of Part, Production & Assembly drawings
- Concepts of Tolerance
- Representation of tol.
- Fits in Mechanical Assemblies
- Existence of GD & T
- Symbols of GD & T per ASME Y 14.5M
- Feature Control Frame
- Basic dimension & size
- Geometric Tol Zone.
- Feature of Size, Identifying feature of size
- Selection of datum
- 3-2-1 Principle
- Rules of Gd & T
- Material Modifiers
- Bonus Tolerance (shaft & hole)
- RFS Condition
- Virtual Condition
- Tolerance Grades ISO 286 -1: 2021
- General Tol zone.
- Fits in Mechanical assembly
- Hole & Shaft basis system
- Surface Finish Symbols

NO.1 TRAINING & PLACEMENT UNIT

CAD DESK

AN ISO 9001:2015 CERTIFIED COMPANY ®

IT Desk
Where Success Begins

SINCE 2007

Bommanhalli & Madiwala - Bangalore

CONTENT OF THE MASTER CAD MECH. COURSE PROGRAM

CATIA

- Catia is a higher end software used widely in Automotive, Aerospace, transportation & Marine.
- Sketcher profile - Lines, Circle, rectangle, spline, ellipse, geometrical & dimensional constraints.
- Operations: Corner, chamfer, trim, mirror. Constraints, Fix together, Edit multi constraint
- Sketch based features - Pad, Multi-pad, pocket, shaft, groove, hole, rib, slot, solid combine, multi section solid, remove multi section solid.
- View - Fly mode, fit all, Pan, rotate, zoom in/out, normal view, view manager, visual style
- Materials, Apply materials, Type of materials
- Reference elements
- Transformation features
- Boolean operations
- Assembly module
- Constraints
- Wireframe & Surface
- Generative sheet metal
- Annotations
- Drafting

NX-CAD

- Basic Layout NX CAD and its uses
- Interface of NX CAD, Mouse function, Basic commands (Save, Open, Import, Export.)
- Sketch, Sketch environment, Sketch curve
- Design features (Extrude, Revolve, datum plane, datum axis, datum CSYS)
- Design features (Block, Cylinder, cone, sphere, hole, boss, pocket)
- Design features (Pad, Emboss, Slot, groove, rib, draft, etc.)
- Design feature (Trim body, split body, trim sheet, extend sheet, un-trim, divide face, delete edge, delete body)
- Assembly (Basics, add, create new, pattern, mirror)
- Assembly (move constraints, assembly constraints, Exploded Views)
- Assembly (connections drop down, exploded view)
- Sheet metal (Basic introduction, bend, flange, counter flange, hem flange, lofted flange, jog)
- Sheet metal (Corner basic, closed corner, three bend corner, break corner, chamfer etc.)
- Drafting (Introduction, View creation wizard, base view, update view, section view)
- Introduction to surfacing, Through curve, swept, face blend, aesthetic, face blend, bridge, blend corner, 4 point surface, fill surface.
- Extract geometry, offset surface, trim sheet, trim body, extend sheet etc.

NO.1 TRAINING & PLACEMENT UNIT

Bommanhalli & Madiwala - Bangalore

AN ISO 9001:2015 CERTIFIED COMPANY ®

CAD DESK

IT Desk
Where Success Begins

SINCE 2007

MASTER CAD MECHANICAL – PLACEMENT COURSES FEE STRUCTURE

SL.No.	4 Course Program	5 Course Program	6 Course Program
1	AutoCAD	AutoCAD	AutoCAD
2	Solidworks	Solidworks	Solidworks
3	Catia	Catia	Catia
4	Gd & T	Nx-CAD	Nx-CAD
5	-	Gd & T	Cre-O
6	-	-	Gd & T
Actual Course Fee	42,500/-Rs	56,500/-Rs	69,500/-Rs
Final Course Fee (2 EMI)	31,500/-Rs + 2000/-Rs Books Fee	38,500/-Rs + 2500/-Rs Books Fee	46,500/-Rs + 3000/-Rs Books Fee
	1st EMI: 18,500/-Rs 2nd EMI: 13,000/-Rs Books Fee: 2000/-Rs	1st EMI: 22,500/-Rs 2nd EMI: 16,000/-Rs Books Fee: 2500/-Rs	1st EMI: 28,500/-Rs 2nd EMI: 18,000/-Rs Books Fee: 3000/-Rs
Final Course Fee (1 EMI)	30,500/-Rs + Books Included	36,500/-Rs + Books Included	44,500/-Rs + Books Included

Note:
- All the above discounts are applicable for the Offline Students, Passout after 2022
- There will be no change in the course program structure once receipt is generated
- Incase of any career gap, arrears / backlog meet the management for guidance.

NO.1 TRAINING & PLACEMENT UNIT

Bommanhalli & Madiwala - Bangalore

AN ISO 9001:2015 CERTIFIED COMPANY ®

**CAD DESK**

IT Desk
Where Success Begins

SINCE 2007

TECHNICALLY IMPORTANT THINGS FOR INTERVIEW & CAREER

- **Mechanical Properties & practical uses**

  The mechanical properties are those which affect the mechanical strength and ability of a material to be molded in suitable shape. Mechanical properties may be determined to provide design data for the engineer. Mostly, the strength, toughness and hardness of materials are to be measured after the metal forming process. Student will be given a practical overview of the importance of mechanical properties of the materials.

- **Stress Strain graph of steel**

  The significance of a stress-strain curve lies in its ability to characterize a material's mechanical behavior under load, providing insights into its strength, toughness, and other crucial properties. It visually represents the relationship between stress and strain. Student will be given a clear over-view from the basics on Stress - Strain Diagrams and its importance in Engg. applications.
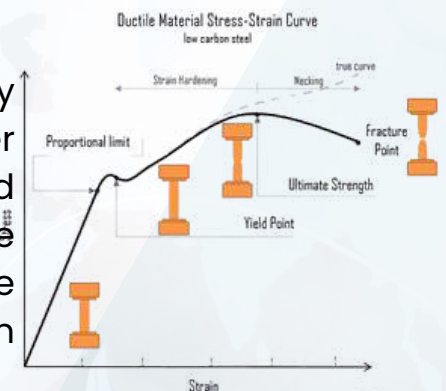
- **Sheet metal design Considerations**

  Sheet metal design requires careful consideration of fabrication processes and material properties to ensure manufacturability and optimal performance. Key considerations include bend radius, hole and slot dimensions, relief areas for bends, and thickness.
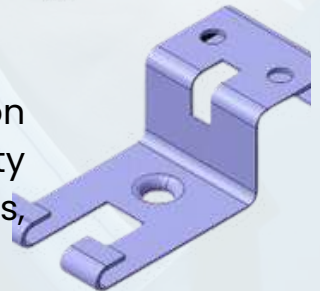
- **Welding & Weld representation in drawings**

  Welding is crucial in engineering for its ability to join metals permanently, creating strong and durable structures. It's used in various industries, including construction, automotive, and manufacturing, enabling the creation of everything from buildings and bridges to vehicles and appliances. Welding offers a cost-effective and efficient way to assemble complex metal structures. Students will be given the practical welding drawings for better understanding.
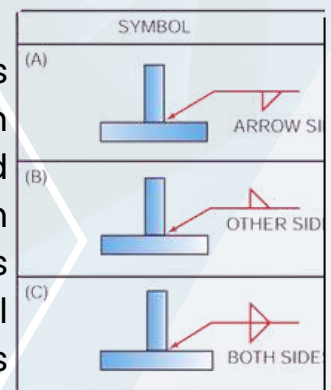
- **Rivet & Fastening process**

  Rivets are used as mechanical fasteners to permanently join two or more materials together. Rivets are commonly employed in industries like automotive, aerospace, construction, and manufacturing for tasks such as attaching body panels, joining structural members, and assembling various components.
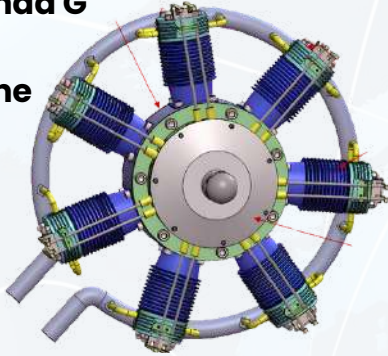
NO.1 TRAINING & PLACEMENT UNIT

Bommanhalli & Madiwala - Bangalore

AN ISO 9001:2015 CERTIFIED COMPANY ®

CAD DESK

ITDesk
Where Success Begins
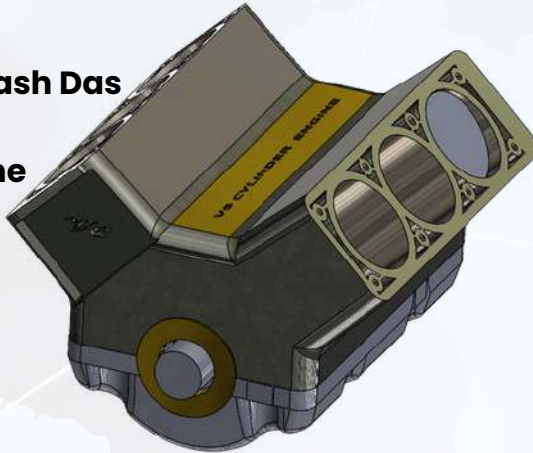
SINCE 2007

SAMPLE MODELING PROJECTS OF OUR STUDENTS

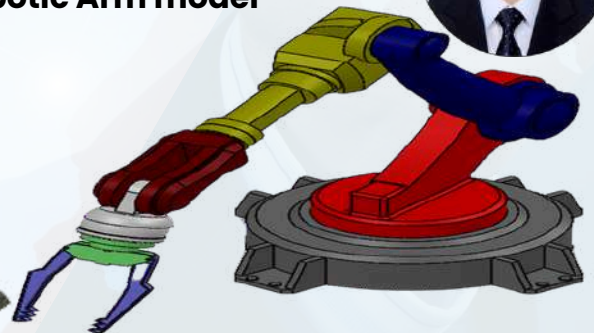**Created by: Dayananda G**
ID: 8419 / 103
Radial Cylinder Engine

Created by: Munirathinam
ID: 8419 / 75
Wheel Axle Arrangement

Created by: Prakash Das
ID: 8419 / 68
V6 Cylinder Engine

Created by: Raahil Azhar Ali
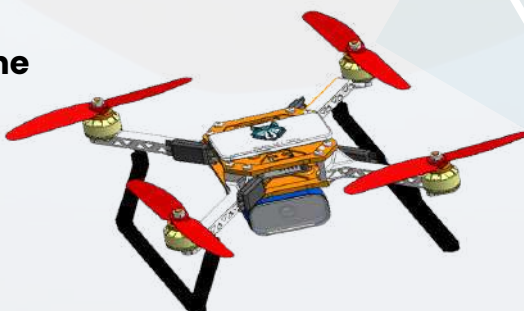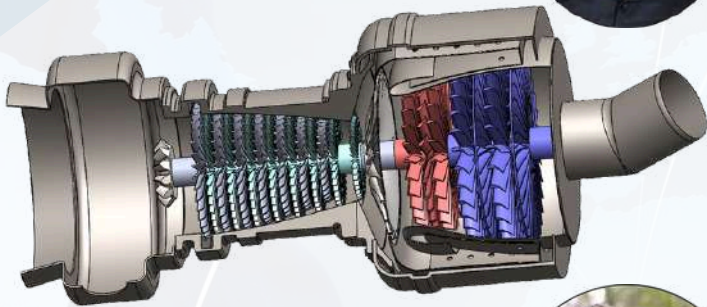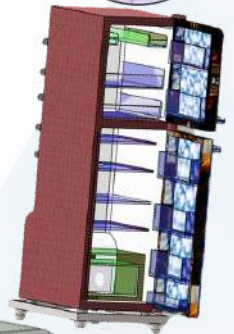**ID: 8419 / 68**
Robotic Arm model

Created by: B Ganesh Madhav
ID: 8419 / 59
3d Model of Solar CAR

Created by: Sambhram D T
ID: 8419 / 74
V6 Cylinder Engine with Intake and Exhaut
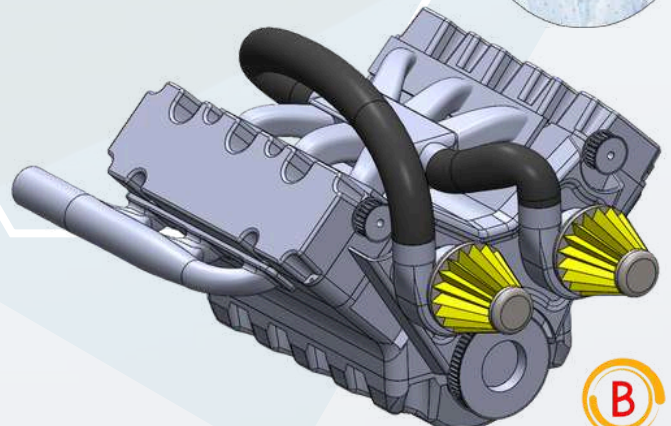
Created by: Sujal
ID: 8419 / 178
3d Model of Drone

AN ISO 9001:2015 CERTIFIED COMPANY ®

CAD DESK

ITDesk
Where Success Begins

SINCE 2007

SAMPLE MODELING PROJECTS OF OUR STUDENTS

Created by: Tharun Kumar
ID: 8419 / 107
3d Model of Jet Engine

Created by: Girish CT
ID: 8419 / 174
Model of XUR CAR, Bi Cycle & Refirgerator

Created by: Vijay AS
ID: 8418 / 38
V12 Cylinder Engine

Created by: Syed Saqib
ID: 8418 / 53
3d Model of Fork lift

Created by: Prakash M
ID: 8419 / 80
Industrial Hand Lift

Created by: S Gowdhaman
ID: 8419 / 127
3d Model of Fighter Jet

NO.1 TRAINING & PLACEMENT UNIT

Bommanhalli & Madiwala - Bangalore

AN ISO 9001:2015 CERTIFIED COMPANY ®

CAD DESK

IT Desk
Where Success Begins

SINCE 2007

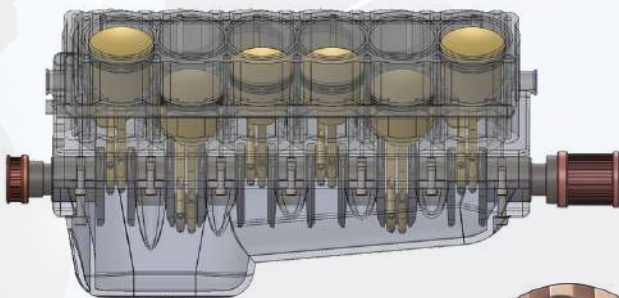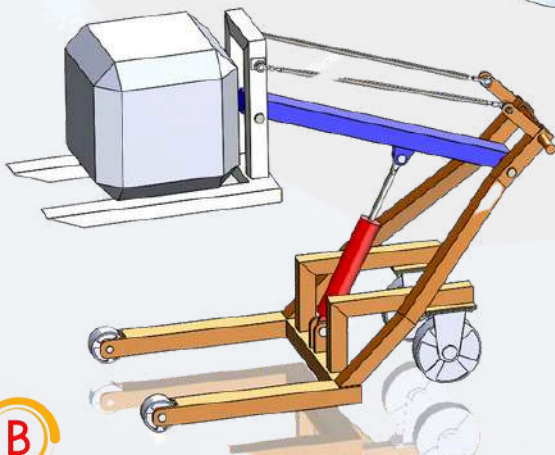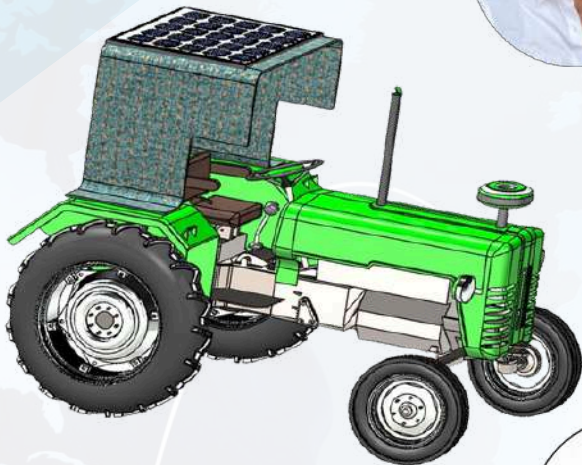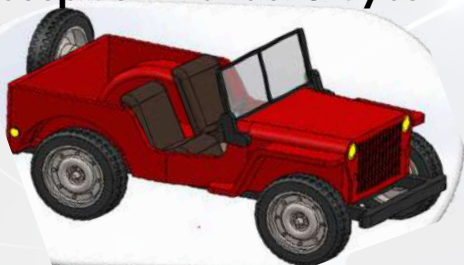## SAMPLE MODELING PROJECTS OF OUR STUDENTS

Created by: Gujjari Ravi Teja
ID: 8419 / 157
Model of Tractor

Created by: Pathan Firoz Khan
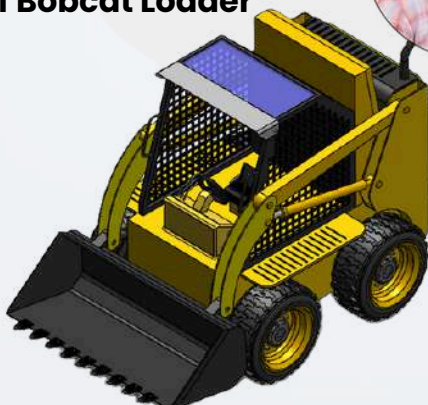**ID: 8419 / 198**
3d Model of Air Bus A380

Created by: Niranjan Kumar R
ID: 8419 / 177
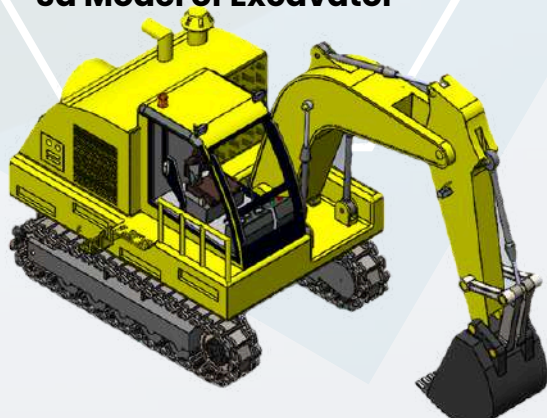**Jeep Commander & Cyber Truck**

Created by: Vigneash M
ID: 8418 / 45
Model of Bomb disposal Robot

Created by: Kalidasa
ID: 8419 / 207
Model of Bobcat Loader

Created by: Rathnam Sateesh
ID: 8419 / 182
3d Model of Excavator

NO.1 TRAINING & PLACEMENT UNIT

CAD DESK
AN ISO 9001:2015 CERTIFIED COMPANY ®
IT Desk
Where Success Begins
SINCE 2007

Bommanhalli & Madiwala - Bangalore

OUR PLACEMENT PARTNERS

MICRON ELECTRICALS

3D CONCEPT

IVORY SENSE

UNIT ALPHA

ELEMENT INFOMATICS

EMATRIX ENGG. LTD

PASOLITE

SOLID SYSTEMS

CONCEPT ENGINEERING

ROYAL LINKS

ENERGYAN LTD

CALIBER PVT. LTD

BAJAJ CAPITAL

VERVEE COURTURE

ENCLAVAR BUILDERS

ADARSH CONTROL AUTOMATION

SHATHI FACADE'S

VARSHINORA DESIGN

FOR MORE DETAILS ABOUT OUR PLACEMENT PARTNERS - PLEASE VISIT THE BELOW WEBSITE LINK
https://cadenggr.com/placement-services

Page 11

NO.1 TRAINING & PLACEMENT UNIT

Bommanhalli & Madiwala - Bangalore

AN ISO 9001:2015 CERTIFIED COMPANY ®

CAD DESK

IT Desk
Where Success Begins

SINCE 2007

OUR PLACEMENT PARTNERS

ARCADIS

XNG AUTOMATION

NAUVATA ENGINEERING

FOCAL SYSTEMS

NEW FIELD ENGINEERING

BHILWARA INFOTECHNOLOGY

PINNACLE

STEEL KRAFT

ELEGANZ INTERIORS

MORPHLE LABS

CREATIVE TECHNOLOGY

SMART QUICK VENTURES

SANCTUM TECHNOLOGIES

GENESIS IT INNOVATIONS

CEA ENGG. AUTOMATION

STAR SWITCH GEARS

QUAD GEN

FOR MORE DETAILS ABOUT OUR PLACEMENT PARTNERS - PLEASE VISIT THE BELOW WEBSITE LINK

https://cadenggr.com/placement-services

Page 12

NO.1 TRAINING & PLACEMENT UNIT

Bommanhalli & Madiwala - Bangalore

AN ISO 9001:2015 CERTIFIED COMPANY ®

CAD DESK
IT Desk
Where Success Begins

SINCE 2007

OUR POWERFUL PLACEMENT STRATEGY

TIME

INTERMITTENT EXAMINATION

PROJECT EXAMINATION

CADDESK/ ITDESK CERTIFICATION

PLACEMENTS / JOB

DAILY ACTIVITY

SKILL DEVELOPMENT   **SKILL EVALUATION**   **SKILL IMPLEMENTATION**

- *100+ ACTIVITIES ON VARIOUS SOFTWARES*
- *AMPLE AMOUNT OF PRACTICE TIME*
- *CAD & IT – SPEED UP EXAMINATION*
- *CREATIVE & INNOVATIVE PROJECTS*
- *TECHNICAL & PRACTICAL SESSIONS*
- *CAREER AWARNESS SESSIONS*
- *COMPLETE & CLEAR RESUME*
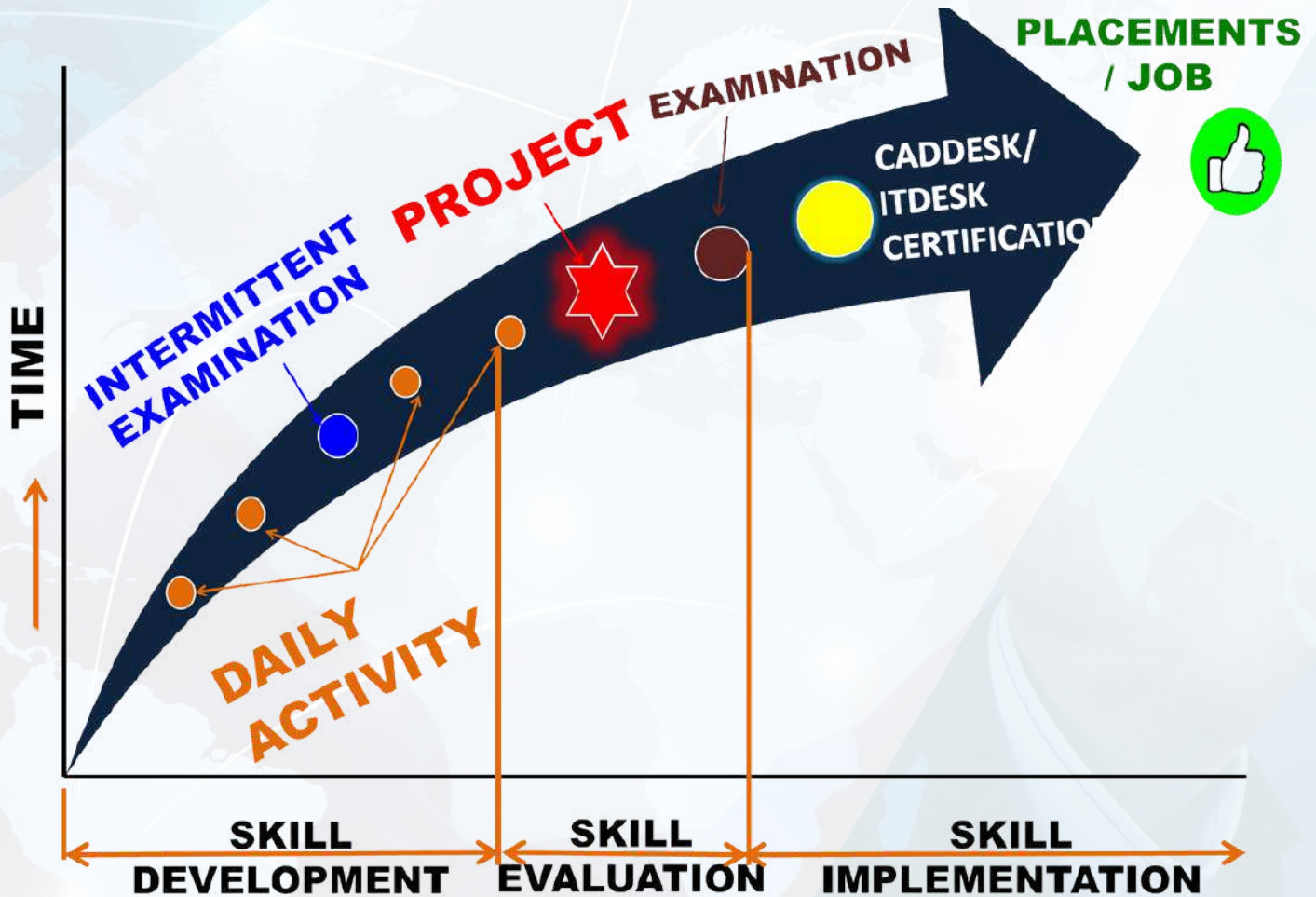- *MULTIPLE INTERVIEW OPPORTUNITIES*

NO.1 TRAINING & PLACEMENT UNIT

Bommanhalli & Madiwala - Bangalore

AN ISO 9001:2015 CERTIFIED COMPANY ®

CAD DESK

IT Desk
Where Success Begins

SINCE 2007

GLIMPSE OF OUR SESSIONS

Resume preparation Sessions:

Students Examination:

Technical Sessions:

NO.1 TRAINING & PLACEMENT UNIT

Bommanhalli & Madiwala - Bangalore

AN ISO 9001:2015 CERTIFIED COMPANY ®

CAD DESK

IT Desk Where Success Begins

SINCE 2007

GLIMPSE OF OUR PLACED STUDENTS

FOR MORE DETAILS CLICK HERE: https://cadenggr.com/placement-services

Click above link for more Placed students & Placement Partners

https://caddeskbangalore-bommanhalli.com/placement-category

+91 – 80500 91122
+91 – 80500 41122

Page 15

NO.1 TRAINING & PLACEMENT UNIT

AN ISO 9001:2015 CERTIFIED COMPANY ®

CAD DESK
IT Desk
Where Success Begins

SINCE 2007

Bommanhalli & Madiwala - Bangalore

EVENTS & CELEBRATIONS

FOR MORE DETAILS CLICK HERE: https://caddeskbangalore-bommanhalli.com/home

🌐 *Click Our Website for Placed students & Partners*
https://cadenggr.com/placement-services

📞 **+91 – 80500 91122**
+91 – 80500 41122

Ⓑ *Initiative of*
Bhaskars Engineeing Design & IT Center