

## M.MARKANDAN

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DOB: 12/02/1955

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**ACADEMIC/RESEARCH AREA** – FULL/PART TIME – VISITING – ADJUNCT FACULTY – PROJECT SUPPORT – WORKSHOP/SEMINAR – CAREER TRAINING – MECHANISM/MACHINES/ELEMENTS/ANALYSIS – CAE/CAD/MBD

**INDUSTRIES AREA** – FULL/PART TIME – CONTRACT – ASSIGNMENT – PRODUCT DEVELOPMENT – REVERSE ENGINEERING – TRAINING – MECHANISM/MACHINES/ELEMENTS/ANALYSIS/PROCESS. MECHANICAL AGRICULTURE – AUTOMOBILE – OTHER APPLICATION & ALLIED AREAS – CAE/CAD/MBD



### OBJECTIVE

CONCEPTUAL DESIGN / MACHINERIES / EQUIPMENT / CAD/ CAE / FEA/CAPP/PROJECTS/TRAINING

### QUALIFICATION

- B.E (MECH) – G.C.T/CBE - MADRAS UNIVERSITY - 1978
- M. TECH (MECH) – I.I.T MADRAS – 1980

### CERTIFICATE COURSE CGNL/NEWZLAND

- PROCESS EQUIPMENT & PRESSURE VESSELS TECHNOLOGY
- PIPING TECHNOLOGY

### RUSSIAN CONSULATE & CULTURE CENTRE - CHENNAI

- RUSSIAN LANGUAGE (3 LEVEL)
- CERTIFICATE PROGRAM/ DIPLOMA PROGRAM – 2008 TO 2009

### SKILL SET

1. CONCEPTUAL DESIGN – PRODUCT DEV – METHODS – APPLICATION
2. CAD/CAE/MULTI BODY DYNAMICS/FEA/STRUCTURAL ANALYSIS
3. MECHANISM – MACHINERIES – EQUIPMENTS – IMPORT SUBSTITUTION
4. KINEMATICS – KINETOSTATICS - OPTIMIZATION
5. LITERATURE SURVEY/RESEARCH DATA/ANALYTICAL
6. CAE/CAD/CAPP/PDM - TRAINING/PROJECTS IN INSTITUTIONS
7. SYLLABUS - PROJECT - RESEARCH SUPPORT - WORKSHOP - KNOWLEDGE BASE - PRODUCT DEVELOPMENT  
- REVERSE ENGINEERING

## SOFTWARE (CAE/CAD/MBD/MATHS)

- VARICAD (CAD/PDM/BOM)
- KOMPAS 3D (CAD/PDM/BOM)
- SOLID EDGE (CAD/PDM/BOM)
- SOLID WORKS (CAD/PDM/BOM)
- WATT MECHANISM SUIT (CONCEPTUAL/KINEMATICS/OPTIMIZATION)
- SAM (KINEMATICS/KINETO-STATICS/MBD/OPTIMIZATION)
- APM WINMACHINE - (ELEMENTS DESIGN/STRUCTURAL ANALYSIS/ FEA/KINEMATICS/KINETO-STATICS/PDM)
- UNIVERSAL MECHANISM(MULTI BODY DYNAMICS/OPTIMIZATION)
- NEI NASTRAN (FEMAP/NEI SOLVER) - FEA
- COMPRESS (PRESSURE VESSELS/EQUIPMENTS-DESIGN/ANALYSIS/ASME)
- AUTO PIPE (PIPING DESIGN/ANALYSIS/ASME CODE)
- PASSAT (PRESSURE VESSEL/HEAT EXCHANGER/ COLOUMN/NOZZLE-FEM)
- HYDRO SYSTEM (ISO/NO-ISO THERMAL FLOW ANALYSIS)
- START (PIPE STRESS ANALYSIS)
- MATHS ILLUSTRATION - GEOMETRY EXPRESSIONS - MECHANICAL EXPRESSIONS
- ANALYTIX - ANALYTIX CAMS

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## EXPERIENCE 38 YEARS

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**2010 - CURRENT** - PAVIATH INTEGRATED SOLUTION

**TOOL** CAE/CAD/PLM/CAPP/MECHANISM/MACHINE ELEMENTS/STRUCTURE

**AREA** MECHANICAL AND APPLICATION AREAS (MACHINE BUILDING AUTOMOBILE, AGRICULTURE, MATERIAL HANDLING.)

### APPLICATION

SYLLABUS - PROJECT - RESARCH SUPPORT - WORKSHOP - KNOWLEDGE BASE - PRODUCT DEVELOPMENT -  
REVERSE ENGINEERING - INSTITUTION - PROFESSIONALS - INDUSTRY - GROUP OF STUDENTS

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**June 2012 – November 2014**

RAMESHWAR ENGINEERING

Consultant (CAD/CAE/CAPP)

Chennai, India 600095.

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**SHRI RAMANA HEAVY ENGINEERING PVT LTD– JULY 2008 – DEC. 2010**

CAD/CAE/DEVELOPMENT/MODULATION/STANDARDIZATION/PROCESS/PDM

CONVEYOR - VIBRATING SCREENS - ROTARY FEEDER –RECLAIMAR - PRODUCT DEV. – STANDARDIZATION –  
MODULATION – 3D CONVERSION

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**MIL INDIA LTD/SENIOR ENGINEER MARCH 08 – JUNE 08**

CAD/CAE/DEVELOPMENT/STANDARDIZATION/PROCESS/PDM

SOAP MAKING MACHINERIES (PLODDER / ROLL MILL)

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**ALIDHRA WEAVETECH PVT LTD/CHIEF ENGINEER SEPT 04 – FEB 08**

CAD/CAE/DEVELOPMENT/STANDARDIZATION/PROCESS/PDM

WATER JET/ AIR JET - LOOMS / PREPARATORY WEAVING - MACHINES PRODUCT DEVELOPMENT

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**INDUSTRIES (JUL 80 – SEP 04)**

BAJAJ STEEL INDUSTRIES / NIPPO / LOYAL TEXTILES / NUTRINE CONFECTIONERIES / GREAVES / KERRY JOST /

PROTEL / SIGT TOOLS / PENTOGAN / GMT / DEVI MACHINE TOOLS / METRO WATER / S.RLY

**RESPONSIBILITY DESIGN / DEVELOPMENT / PROCESS / STANDARDIZATION**

PRODUCT DEVELOPED (MACHINERIES/EQUIPMENT)      APPLICATION AREA

- COTTON GINNING MACHINE/AUTOMATION – **TEXTILE MACHINES**
- PAPER TUBE MAKING MACHINE/JACKET CURLING MACHINE/AUTO LABELING MACHINE/TUBE CUTTING MACHINE – **BATTERY MFG. MACHINES**
- HUMIDIFICATION FILTERS/DIVERTERS/ALLIED EQP. – **TEXTILE MACHINES**
- CONFECTIONERY DIES – **BISCUIT & CHOCOLATES MFG. MACHINES**
- OUT BOARD DRIVES/LONG TAIL - OBM – **MARINE DRIVES**
- INJECTION MOLDING MACHINES – **PLASTICS MACHINES**
- WATER/MINING HAMMERS – **ROCK DRILLING MACHINES**
- WIRE DRAWING ALLIED EQUIPMENT – **AL. CABLE INDUSTRIES**
- HYDRAULIC PUSH CAR – ELECTRIC KILN – **CERAMIC MACHINES**
- PNEU. CONVEYING - AUTO SAMPLING – **PROCESS INDUSTRIES**
- SINGLE/MULTI STAGE BROACHING M/C – **MACHINE TOOLS**
- TOOL & CUTTER GRINDING/PLANET GRINDING/SURFACE & CYLINDRICAL GRINDING/SLIDE WAY GRINDING - MACHINES/GRINDING SPINDLES – **MACHINE TOOLS**
- HOBGING M/C/HOB SHARPENING M/C – **MACHINE TOOLS**
- SHEARING M/C/PRESS BRAKE/FORGING HAMMER – **MACHINE TOOLS**
- CYLINDRICAL GRINDING/BELT GRINDING/LAPPING -MACHINE/MULTI STAGE CENTER LESS GRINDING M/C – **MACHINE TOOLS**
- MAINTENANCE – WATER/SEWER LINES/PUMPING STATION/MACHINERIES – **WATER SUPPLY & SEWERAGE**
- MAINTENANCE – PANEL BOARD/ROUTE RELAY INTERLOCKING/RAILWAYS