

Biodata

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➤ Qualification

BE – Mechanical Engineering

M.Tech. - **Machine Design (VTU Gold Medalist)**

Six Sigma – **DMAIC** and **DFSS** trained

Certified **Online Courses**:

1. “Introduction to Engineering Mechanics”, Georgia Institute of Technology, USA [5 weeks]
2. “Mechanics of Materials-I, Fundamentals of stress and axial loading”, Georgia Institute of Technology, USA [5 weeks]
3. “Introduction to programming with MATLAB”, Vanderbilt University, USA [9 weeks]

➤ Work Experience (2+ years of industry and 9+ years of teaching)

- Worked as **Engineer-CAD/CAM/CAE** for 1 year
- Worked as a **Technical Consultant** for a CPRI power project
- Worked as a **Project Trainee** in ISRO Satellite Centre, Bangalore for 11 months
- Worked as a **Teaching Faculty** for ANSYS&CATIA V5 for more than 2 years
- Worked as **Design Engineer** in GE Medical Systems, Bangalore for 13 months
- Worked as **Assistant Professor** in East Point College of Engineering and Technology, Bangalore from Sept 2009 to July 2013
- Worked as **Assistant Professor** in S.J.B. Institute of Technology, Bangalore from July 2013 Aug 2014
- Working as **Assistant Professor** in B.M.S. College of Engineering, Bangalore from Aug 2014 till date

➤ Academic Records

Class/Degree	School/Institution/University	Year of Passing	Percentage Marks
SSLC	GHS Jayanagar, Hosanagar Taluk, Shimoga dst. Karnataka	1999	77.60
PUC	Sri Poorna Prajna College, Udupi, Karnataka	2001	75.33
BE-Mechanical Engg.	Bangalore Institute of Technology, Bangalore (VTU)	2005	81.42
M.Tech-Machine Design	BMS College of Engineering, Bangalore (VTU)	2008	84.60 VTU GOLD MEDAL

➤ Software skill set

ANSYS APDL, ANSYS WORKBENCH, MATLAB, HYPERMESH, RADIOSS, MSC PATRAN/NASTRAN, MSC MENTAT/MARC, CATIA V5, SOLID EGDE, IDEAS, 3DEXPERIENCE (DASSAULT SYSTEMS)

➤ **Employee Records**

- 1] Designation : Engineer – CAD/CAM/CAE
Period : August 2005 to July 2006
Company : Essential Engineering Solutions – CAD/CAM/CAE
- 2] Designation : Faculty
Period : December 2006 to June 2008 (part-time)
Company : CADD CENTRE Chamarajpet, Bangalore
- 3] Designation : Project Trainee
Period : August 2007 to June 2008
Company : ISRO Satellite Centre, Bangalore
- 4] Designation : Design/Development Engineer
Period : August 2008 to Sept 2009
Company : GE Medical Systems, Bangalore
- 5] Designation : Assistant Professor
Period : Sept 2009 to July 2013
Institution : EPCET Bangalore
- 6] Designation : Assistant Professor
Period : July 2013 to Aug 2014
Institution : SJBIT Bangalore
- 7] Designation : Assistant Professor
Period : Aug 2014 till date
Institution : BMSCE Bangalore

➤ **Subjects Handled**

- Computer Aided Engineering Drawing (CAED)
- Elements of Mechanical Engineering (EME)
- Strength of materials (SOM) and Mechanics of materials (MOM)
- Design of Machine Elements – I (DME-I)
- Design of Machine Elements – II (DME-II)
- Kinematics of Machines (KOM)
- Experimental Stress Analysis (ESA)
- Dynamics and Mechanism Design(D&MD-M.Tech)
- Advanced Theory of Vibrations(ATV-M.Tech)
- Theory of Elasticity(TOE)
- Theory of Plasticity (TOP)
- Modeling and Finite Element Analysis(MFEA)

➤ **Other achievements**

- Won the **VTU GOLD MEDAL** for having secured **1st Rank** in M.Tech-Machine Design in the year 2008.
- International publication: “**Finite Element Analysis of thermal characteristics of annular fins with different profiles**”, APRN Journal of Engineering and Applied sciences, Vol7, No.6, JUNE 2012.

- International publication: “**Finite Element Investigations of Temperature distribution in Fins with circular perforations**”, American Journal of Material science 5(3c), 157-161, 2015.
- International publication: “**Analytical and Numerical validation of Epoxy/Glass structural composites for Elastic Models**”, American Journal of Material science 5(3c), 162-168, 2015.
- National conference: “ **Non-linear Finite Element Analysis of Thin Membrane Structures**” in National Conference – ETIME,BMSCE, 2008
- Received an award by Dassault Systèmes for developing online course on **Finite Element Analysis of Composite Material Parts using 3D Experience** under Peer Learning Experience Program (PLEXP).
- Guest lecture on “**CAE-An introductory exposure to engineering students**” at St.Joseph Engineering College, Mangalore, 2011.
- Invited talk: “**Use of ANSYS in design lab of M.Tech students**” at B.M.S. Institute of Technology, Bengaluru [2014-15].
- Laboratory demo session: “**Modeling of nonlinear materials in FEA**”, Two week FDP on Modeling, Materials & Manufacturing, BMSCE [2015-16].
- Online course development: “**Finite Element Analysis of Composite Material Parts using 3DEXPERIENCE**”, Peer Learning Experience Program of DASSAULT SYSTEMS, [ongoing].
- Expert lecture: “**FEA training on ANSYS**”, Short Term Training Program on FE Methods & Applications, BMSCE [2017-18].
- Expert lecture: “**FEA using ANSYS**”, Short Term Training Program on FE analysis and simulation, BMSCE [2017-18].
- Resource person for training ANSYS in One week FDP on **Theoretical and Computational Mechanics-II** at NMAM Institute of Technology, Nitte on 9th, 10th and 12th July 2018.
- Resource person for training SOLIDWORKS and ANSYS in five days workshop on **CAD Modeling, MATLAB and ANSYS** organized by F.E.T.M.J.P. Rohilkhand University, Bareilly, Uttar Pradesh from 6th to 10th August 2018.
- Resource person for FEP organized at VTU Regional office, Kalaburgi on **Finite Element Analysis using ANSYS** on 18th July 2019.
- Secured First Class with Distinction (**FCD**) in BE and M.Tech- all semesters.
- **GATE-2005** qualified.
- Trained more than 30 corporate batches on ANSYS and CATIA V5.
- Has compiled and updated very informative manuals for **Design Laboratory, Computer Aided Modeling & Analysis laboratory and Modeling & Finite Element Laboratory**.
- Has prepared and managed the time tables for all the sections including M.Tech programmes of the Mechanical Engineering department, for more that 5 semesters.

- Has got excellent student feedbacks & subject results.

➤ **Curriculum Projects**

BE 6th Semester: *Thermal stress analysis of a Gas Turbine Rotor assembly subjected to high Centrifugal force using ANSYS.*

BE 8th semester: *Thermal stress analysis of a double acting reciprocating air compressor cylinder using ANSYS carried out at Ingersoll Rand Bangalore.*

M.Tech: *Nonlinear Finite Element Analysis of thin membrane structures using MSC-Marc carried out at ISRO Satellite Centre Bangalore.*

➤ **Personal details**

Father's Name : Shankarnarayana Somayaji
Date of Birth : 04-06-1983
Sex : Male
Marital Status : Married
Known languages : English, Hindi and Kannada
Hobbies : Performing in Yakshagaana, Painting, Listening to music
Permanent Address : "Gajamukha", Brahmana jaddu,
Hokkolimane, Karkunje post,
Kundapur Taluk, Udupi (DST),Karnataka – 576241

➤ **Declaration**

I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Bangalore
Date: 12/09/20189

SHASHIRAJ