



# Tom Thomas

## Masters Degree Student

 13 March 1994  
 Zeunerstr 1F/209  
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 [https://www.xing.com/profile/Tom\\_Thomas32](https://www.xing.com/profile/Tom_Thomas32)  
 tomkrony@gmail.com

## Career Objective –

I want to work in a firm where I can deal with real world programming challenges . I want to use my knowledge and technical skills to improve the company growth and also to upsurge my skills and abilities for my professional growth.

## Skills

Finite Element Method

FORTTRAN,C++,C, Python

Team Work,Quick Learner

AUTOCAD,STAAD,IESve,FEAP

Omni-optimizer

Researcher

## Professional Experience

- 1/18-9/18 Research Assistant Dresden,Germany  
Under the Prof. Dr.-Ing. Raimar Joseph Scherer and Prof.Dr.Habil Karsten Menzel of Institut für Bauinformatik at Technishche Universität Dresden.  
Topic: Energy simulation using IESve software
- 4/18-9/18 Research Assistant Dresden,Germany  
Under the guidance of Univ.-Prof.Dr.-Habil Michael Kaliske of Institut für Statik und Dynamik Tragwerke at Technishche Universität Dresden.  
Topic: Finite Element Method with heirarchical meshes.
- 6/17-11/17Research Assistant Dresden,Germany  
Under the guidance of Univ.-Prof.Dr.-Habil Michael Kaliske of Institut für Statik und Dynamik Tragwerke at Technishche Universität Dresden.  
Topic: Anisotropic hyper thermo elastic material model for FE simulation
- 6/16-8/16 Operations Executive Kumily,India  
I was in charge of the operations wing of the four star resort 'Greenwoods' at Thekkady, Kerala, India.  
Topic: Improving the technical system of operations of the resort

## Education

- since 2016 M.Sc. ACCESS Dresden,Germany  
Majoring in Advanced Computation and Civil Engineering Structural Stuides from Technishche Universität Dresden.
- 2012-2016B.Tech. Civil Engineering Palai,India  
Majored in Civil Engineering from St.Josephs College of Engineering and Technology.
- 2007-2012High school Kumily,India  
Specialized in mathematics and computer science from Montfort Senior Secondary School.

## Academic Qualification

COURSE	UNIVERSITY/BOARD	YEAR OF PASSING	PERCENTAGE
Master of Science	Technische Universität, Dresden	Pursuing	1.5(current)
Bachelor of Technology	Mahatma Gandhi University	2016	8.2
Higher Secondary	Central Board Of Secondary Education	2012	78.8
Secondary	Kerala State Board	2010	93

## Awards and Achievements

- 2016 Third Position in the Digital marketing workshop conducted by IIM Calcutta.
- 2016 Participated in ISTE workshop on Green Building Awareness conducted by IIT Bombay.
- 2016 Headed the St Josephs College basketball team and participated in different zonal University Championships.
- 2016 Served as Chief Student Placement Coordinator of St Josephs College of Engineering and Technology.
- 2009 Second Prize for Web Page Designing Competition(HTML) in the sub district talent quest.

## Interests

- Playing Basketball, Swimming, FIFA
- Driving

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## Languages Known

English

German (B1 Level)

Hindi

Malayalam

Tamil

## Personal Details

Age 24 Years, 13/03/1994  
Gender Male  
Nationality Indian  
Father's name Mr. Thomas Mathew  
Family Status Unmarried  
Passport Nr. Z2879416  
Visa Status Valid Until April 2019

## Masters Degree Thesis Work

Topic: Implementation of the Neumann-type boundary conditions within a decoupled thermo-elastic homogenization framework.

Homogenization and multi-scale approaches of structures with a heterogeneous material composition undergoing thermodynamical loading.

Programming languages and software programs using : C++, FORTRAN, FEAP  
Supervisors : Univ.-Prof.Dr.-Habil Michael Kaliske, Prof. Dr. Ing. Wolfgang Graf, Dr. Ing Robert Fleischhauer

Duration : 120 days (15.05.2018 - 17.09.2018)

## Masters Degree Project Work

Topic: Implementation, verification and validation of an anisotropic hyper-thermo-elastic material model.

Existing hyper-thermo-elastic material description has to be implemented into a finite element code (FEAP).

Programming languages and software programs using : C++, FORTRAN, FEAP

Supervisors : Univ.-Prof.Dr.-Habil Michael Kaliske, Dr. Ing Robert Fleischhauer

Duration : 120 days (31.10.2017 - 21.02.2018)

Grade point awarded: 1.3

## Bachelors Degree Project Work

Smart City Kottayam and design of a parking plaza at Kanjikuzhy.

The objective of this project is to make the Kottayam town to a smart city by introducing green city aspect, intelligent transportation system, multiple linkages, speed management, high way advisory radio, multiple use of streets, appropriate bicycle paths and sidewalks etc.

## Bachelors Degree Seminar Work

Topic: Participatory Urban Planning

Participatory urban planning is the involvement of the general public into the planning and designing phase of the public amenities. The priorities of people are being collected and analysed in a professional manner.

## INDUSTRIAL VISITS

- Steel institute excursion.- Visited the following places Arcelor Mittal Eisenhüttenstadt, Schweriner Anlagenbau, Deges Langenfelder Brücke, U4 Elbbrücken hamburg, SEH EIFFAGE Fertigung Hannover, Neubau Schleuse Zerben
- Thenmala Dam, Kollam, Kerala, India.
- Pallivasal Hydro Electric Power Plant, Idukki, Kerala, India.

## Industrial Training(Internship)

At Johnsons Constructions, Coimbatore)

Industrial Training was conducted in the period from May 2014 to June 2014. Several site visits were conducted including the Police Headquarters. Construction of formwork, concreting of beams, slabs, columns were understood.