

Mangalore, India 🏠

(+91) 976 956 3087 📞

naveennbhat@yahoo.co.in ✉

www.linkedin.com/in/naveennbhat in

www.naveennbhat.strikingly.com 🌐

# NAVEEN N. BHAT



## WHY YOU SHOULD HIRE ME

I am a mechanical, materials and aerospace engineer by education, seeking an opportunity to apply the tools and knowledge I have acquired over the years. I bring my strong analytical and visualising abilities to the table, and an eagerness to learn and apply new skills.



## I BRING TO THE TABLE

- Skills in CAD/CAM tools – Solid Edge, Solid Works, AutoCAD 2D/3D, Pro/E Wildfire/Creo, CATIA, ANSYS Workbench
- Working knowledge of programming – C/C++, MATLAB, CNC
- MS Office, MS Project, operations research, statistics & applied probability
- English ★★★★★
- Hindi ★★★★★
- Kannada ★★★★★
- German ★★★★★
- Marathi ★
- Konkani – native



## CERTIFICATE COURSES

### Quadrotor Design, Fabrication & Flying | Roboversity, IIT Bombay

Received hands-on experience in assembling a quadrotor from scratch (2014)

### Professional Diploma in Product Design & Analysis | CADD Centre, Bengaluru

Skills: AutoCAD 2D, Pro/E Wildfire/Creo, CATIA, ANSYS Workbench

Analysis Systems: Static Structural, Modal, Buckling, Thermal, Couple Field

### Automobile Servicing & Maintenance Technology | GTTI, Coimbatore

Received hands-on experience in dismantling and assembly of various automobile systems – electricals and electronics, interior, powertrain and chassis (2010)



## RESEARCH EXPERIENCE

- Phobos Lander & Sampling Mission (PLASM) – Worked as a **structural engineer** and designed the landing gear and anchoring mechanism of the surface package as part of the Space Utilisation & Exploration Project at FH Aachen, evaluated by visiting scientists from the German Aerospace Centre (DLR). The mission objective was to collect a soil sample from the surface of Phobos and return to Earth for analysis.
- Studied the effects of damage on composite helicopter rotor blades under the guidance of Professor P. J. Guruprasad, Department of Aerospace Engineering, IIT Bombay.
- Studied the effects of machining on carbon fibre reinforced plastics (CFRPs) under the guidance of Professor S. Gururaja in the Advanced Materials Processing Laboratory (AMPL) of the Department of Aerospace Engineering, IISc Bengaluru.
- Worked on optimising the shape of a turbine blade in the GTX-35VS Kaveri engine (HAL Tejas) using Ansys as a **summer intern** at the Vibration Engineering Group of Gas Turbine Research Establishment (GTRE), Defence Research and Development Organisation (DRDO), Bengaluru.
- **Undergraduate Thesis:** Production and Evaluation of Aluminium – Carbon/Mica Metal Matrix Composites (MMC). The composite samples were produced by stir-casting method and a comparative evaluation was done of their physical and thermal properties.



## TEACHING EXPERIENCE

- Teaching Assistant to Professors H. Arya and P. J. Guruprasad in the preparation of course material for the undergraduate courses *AE 411 Control Systems Laboratory* (summer semester, 2012-2013) and *AE 433 Vibration and Structural Dynamics* (winter semester, 2012-2013) respectively, Department of Aerospace Engineering, IIT Bombay.
- Teaching Assistant to Professor S. Gururaja for the postgraduate course *AE 228 Fatigue and Failure of Materials* (winter semester, 2011-2012), Department of Aerospace Engineering, IISc Bengaluru.



## I GRADUATED FROM

### **Bachelor of Engineering | B M S College of Engineering (BMSCE), Bengaluru**

2007 – 2011, 67.21%, 7.47 CGPA, FIRST CLASS

- **Focus:** Mechanical Engineering
- **Electives:** Automotive Engineering, Internal Combustion Engine, Theory of Elasticity, Theory of Plasticity, Tribology
- **Campus Placements:** Graduate Trainee in ONGC Mangalore Petrochemicals Ltd and Assistant Systems Engineer in Tata Consultancy Services (TCS)



## UNIVERSITIES I ATTENDED

### **Aachen University of Applied Sciences (FH Aachen)**

2017 – 2019, 6 ECTS

- **Focus:** Aerospace Engineering (ASTRO)
- **Courses:** Advanced Mathematics, Advanced Finite Element Methods, Advanced Project Management, Advanced Space Dynamics, Advanced Space Propulsion, Hypersonic Aerodynamics & Atmospheric Entry, Mathematical Optimisation, Space Environment, Space Mission Engineering, Space Mission Analysis & Design

### **Indian Institute of Technology (IIT Bombay)**

2012 – 2014, 62 CREDITS

- **Focus:** Aerospace Engineering (Structures)
- **Courses:** Advanced Aerospace Structures, Aircraft Design, Continuum Mechanics, Elastic Analysis of Plates & Laminates, Fibre Reinforced Composites, Finite Element Methods, Introduction to Flight, Structural Dynamics

### **Indian Institute of Science (IISc Bangalore)**

2011 – 2012

- **Focus:** Aerospace Engineering (Structures)



## AWARDS AND HONOURS

### **National Talent Search Examination (NTSE) Scholar | Department of State Educational Research & Training (DSERT), Government of Karnataka**

Ranked 22<sup>nd</sup> in Order of Merit (2005)

### **High Distinction in Mathematics | University of New South Wales, UNSW Global and Educational Assessment Australia**

100<sup>th</sup> percentile in the country (India) in the International Competitions and Assessment for Schools (ICAS) examination in the academic years of 2004-05 and 2006-07



## STANDARDISED TESTS

### **Graduate Record Examination (GRE) | 327/340**

Quantitative Reasoning 170/170 | Verbal Reasoning 157/170 | Analytical Writing 3.5

### **Graduate Aptitude Test in Engineering (GATE) | 613**

98.9<sup>th</sup> percentile in Mechanical Engineering | All India Rank 888

Naveen N. Bhat

**Test of English as a Foreign Language (TOEFL) | 110/120**

Reading 30/30 | Listening 30/30 | Speaking 23/30 | Writing 27/30

**telc Deutsch B1 | 253.5/300**

Reading 65/75 | Grammar 22.5/30 | Listening 55/75 | Writing 45/45 | Speaking 66/75

**General Intelligence Quotient (IQ) | 149**

iqtest.com | 28 March 2013

...

## LEADERSHIP EXPERIENCE

- Organised seminars and events as **Graduate Convenor** of Krittika – the Astronomy Club of IIT Bombay for the academic year 2013-2014
- Was the **Coordinator** of the Mumbai-Pune Chapter of the B M S College of Engineering Alumni Association (BMSCEAA), 2012-2015
- Qualified the A Certificate as part of the 9th Karnataka Battalion (9 KAR BN) of the National Cadet Corps (NCC)
- **Prefect** for the batch of 2005 at Venkat International Public School, Bengaluru

...

## VOLUNTEER EXPERIENCE

- **Student Liaison** (Ravenclaw House) and **Professor's Assistant** (Defence Against the Dark Arts) on hogwartsishere.com, a Harry Potter-themed MOOC from 2014 to 2016 – supporting new students, handling student grievances and marking assignments
- Volunteered in the event organising team at Entwirft 2010, the annual fest organized by the Department of Mechanical Engineering, B. M. S. College of Engineering
- Volunteered at the eye donation campaign on 7th September 2003, organized by Lions International Eye Bank, Lions Eye Hospital & Cornea Grafting Centre, Bengaluru – pledged to donate eyes after death

...

## OTHER ACHIEVEMENTS

- **Guinness World Record** for most people dunking cookies (one among 1,796 people) on 22nd December 2013 at IIT Bombay
- Successfully completed the Mumbai leg of *Tour de India* two years in succession – 2012 and 2013 – NSCI (National Sports Club of India) → Worli Sea Face → Bandra-Worli Sea Link → NSCI; 23 km in 48 minutes
- Won the **Bronze medal in Volleyball** representing the Department of Aerospace Engineering at the PG Sports 2012-13 at IIT Bombay
- **Floated own prediction league** based on T20 cricket, featured in the Times of India (National newspaper – Bengaluru edition) on 22<sup>nd</sup> September 2010
- Excelled with **Distinction** in the annual International Competitions and Assessment for Schools (ICAS), University of New South Wales, UNSW Global and Education Assessment Australia, during the period 1998 to 2006
- Regularly excelled in athletics (100m, 200m, 4X100m, long jump, high jump) at the High School and University level, selected to the **college athletics team** for 2008-2009 VTU Annual Sports Meet
- Won the inter-school **website designing** competition at Anveshan 2004, the annual fest at MES Kishore Kendra, Bengaluru
- Won the **Best Entry** in the respective age group four times in the annual All India Camlin Colour Contest 1993, 1994, 1997 and 1998