Curriculum vitae

PERSONAL INFORMATION

Venkata Mukund Kashyap Yedunuthala

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Sex Male | Date of birth 16/07/1997 | Nationality Indian

EDUCATION AND TRAINING

10/2019–Present

Master of Science

Technische Universität Bergakademie Freiberg, Freiberg (Germany)

Relevant modules: Mechanics of materials, Thermodynamics of materials, Introduction to scientific programming, Metallic Materials, Semiconductors, Ceramic engineering.

08/2015–04/2019

Bachelor of Engineering

Chaitanya Bharathi Institute of Technology, Hyderabad (India)
www.cbit.ac.in

Courses/Modules covered: Computational fluid dynamics, Finite element analysis, Mechanical vibrations, Structural design, Thermodynamics, Higher engineering mathematics, Soft skills.

Aggregate: 8,60 (CGPA, Highest possible grade: 10,0)

06/2013–05/2015

Higher education qualification

Sri Chaitanya Junior College, Hyderabad (India)

Areas of focus: Mathematics, Physics and Chemistry.

Aggregate: 96,8%

04/2013

Secondary school

Brahmam High School, Hyderabad (India)

Aggregate: 9,8 (CGPA, Highest possible grade: 10,0)

PERSONAL SKILLS

Mother tongue(s) Telugu

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
German	B1	B1	B1	B1	B1
	Goethe Zertifikat B1				
English	C2	C2	C2	C2	C2
	International English Language Testing Scheme (8,0/9,0 points)				

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

Communication skills

- Acted as one of the *Directors* in the *Secretariat* of *CBIT Model United Nations*, a position achieved through merit in several Model United Nations events. Eventually organized an event under the same name, as a member of the Secretariat, that attracted over 300 participants and was awarded

with an official accreditation by United Nations Information Center for India and Bhutan during my tenure.

- Articles written by me were published in several blogs and websites, such as the *Airtel Hyderabad Marathon 2017,* and an entertainment blog. A sample of my work can be found in the website of *STSTW Media*, a website based in India, here.

Organisational / managerial skills

- Held the position of *Head of Human Resources* in TEDxCBIT 2018, an independently organized TED event at Chaitanya Bharathi Institute of Technology, Hyderabad, which involved overseeing a team consisting of over 40 volunteers throughout the period leading up to the event, which was attended by 150 participants.
- Helped organize the Mechanical Engineering department's arm of a technical symposium hosted by the institute as an official member of the core organizing committee, as well as handling social media outreach during the event in 2019.
- An operational knowledge of the concept of *Kanban*, utilized to streamline workflow during my programming projects specified by the curriculum of the university in 2020.

Job-related skills

- **Programming Languages:**
  - Python (along with packages such as NumPy, SciPy, Matplotlib), Matlab, C++
- **Software:**
  - SolidWorks, ANSYS Structural
- **Version Control:**
  - git through bash shell.
- **Miscellaneous:**
  - Unix, Linux debian-based operating systems, Microsoft Office.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Independent user	Proficient user	Independent user	Independent user	Independent user

Digital skills - Self-assessment grid

ADDITIONAL INFORMATION

Projects

Bachelor thesis: *Design, analysis, and development of air bearing systems with emphasis on hyperloop transportation system.* (2018 - 2019)

- Worked upon creating various 3D visualizations of a prototype air bearing that aimed at matching the specified requirements using rapid prototyping techniques (3D printing), aided by the institute's state-of-the-art 3D printing facilities and technical expertise. Scaled-down models and prototypes of the same were developed using polyacetic acid (PLA).
- A structural design analysis of the prototypes obtained was then performed using the commercial structural analysis packages provided by ANSYS Inc. with an academic license. The data thus obtained was extrapolated and compared with the parameters proposed in earlier publications in similar line of work.

Certifications

- *Introduction to computer science and programming using python,* a course offered by MITx on edX online platform. The course focused on basics of python programming as well as object oriented programming paradigm, and important algorithms that aid the understanding of the intricacies of programming language.
- *Python data structures,* course offered by University of Michigan on Coursera online platform. It focused on different types of data storage structures offered by Python programming language, like

lists and dictionaries, as well as focusing on some crucial applications of these data structures.

Presentations

- Presentation of articles that focused on the broader subject of numerical techniques that are applicable in mechanical engineering using programming languages, at an event organized by Computer Science department of Vasavi College of Engineering in 2015.