



# YOGITA GOHIYA

**Date of birth:** 05/12/1992 | **Nationality:** Indian | **Gender:** Female | **Phone number:** (+39) 3295952747 (Mobile) | **Email address:** [yogitagohiya@gmail.com](mailto:yogitagohiya@gmail.com) | **LinkedIn:** [www.linkedin.com/in/yogita-gohiya-565b54127](https://www.linkedin.com/in/yogita-gohiya-565b54127) | **Address:** Jægersborg Alle 166, ST.123., 2820, Gentofte, Denmark (Home)

## ABOUT ME

Space Systems Engineer with specialized expertise in spacecraft design, systems engineering, and mission analysis for space exploration. Experienced in Phase A mission studies and cross-functional project collaboration, including work with international teams on robotic and crewed missions. Skilled in requirements flowdown, concurrent design, and systems integration, with hands-on experience using COMET for design iteration tracking. Known for adaptability and problem-solving in dynamic, interdisciplinary environments.

## EDUCATION AND TRAINING

31/01/2022 – 20/10/2022 Turin, Italy  
**2ND LEVEL MASTERS** Politecnico di Torino

Completed a master's course focused on deepening my technical expertise in the space sector, particularly in systems engineering and spacecraft design. As part of a six-month collaborative project with students from ISAE-SUPAERO in Toulouse and the University of Leicester, I contributed to two Phase A mission studies: a robotic exploration mission to Europa, aimed at subsurface exploration, and a crewed human transfer vehicle to Mars.

### Key Contributions:

**Mission Requirements Flowdown :** Led the development of initial science requirements for the Europa mission, ensuring they translated effectively into engineering specifications. My work on the communications system, for example, demonstrated how mission data requirements impact system design, enabling alignment with scientific objectives.

**Design Collaboration and Iteration :** Collaborated with the Italian Space Agency (ASI) at their Concurrent Design Facility (CDF) to refine our Mars transfer vehicle. During this intensive week, I gained hands-on experience using COMET software to track design iterations, which strengthened my ability to manage complex system requirements and adapt to evolving project needs.

**Multidisciplinary Adaptability :** Contributed across various mission elements, from systems engineering to subsystem design, adapting to changing requirements and integrating feedback from multiple stakeholders.

**Field of study** Space Exploration and Development system | **Final grade** 105/110

17/08/2016 – 29/03/2019 Bhopal, India  
**MASTER OF TECHNOLOGY** Rajiv Gandhi Proudhyogiki Vishwavidyalaya

**Microstrip Patch Antenna For Future Endeavors in 5G Communication:** A design of 2x2 microstrip patch array antenna for 6GHz and analysis in terms of resonant frequency, VSWR, Return loss etc. The FR4 Epoxy substrate is used to design the antenna with CST software. Results show that the frequency bandwidth covers LTE band (4-7) GHz, at centre frequencies 4.91 GHz and 6.08 GHz respectively for VSWR less than 2, and S11 less than -10 dB. Simulated result achieves considerable improvement and can be used in 5G communication application.

**Field of study** Digital Communication | **Final grade** 89.6/100

05/09/2011 – 22/06/2015 Bhopal, India  
**BACHELOR OF ENGINEERING** Rajiv Gandhi Proudhyogiki Vishwavidyalaya

**Ultrasonic navigator for Visually Impaired People:** We developed a system for the blind. It effectively calculates distance of the detected object from its subject. It uses sound & acoustic feedback to aware the subject about the detected obstacles and their distance. This proposed system uses microcontroller based embedded system to process real time data collected using

● **LANGUAGE SKILLS**

Mother tongue(s): **HINDI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	B2	B2	B2
<b>ITALIAN</b>	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

COMET Software | MATLAB | Simulink | Microsoft Excel | Computer Simulation Technology | PCB Design | C | Microsoft Word | Microsoft Powerpoint

● **ORGANISATIONAL SKILLS**

**Personal Skills**

- Logical Thinking
- Team Player
- Organized
- Communicator
- Helpful

● **VOLUNTEERING**

**Extra-Curricular Activity**

- Attended **National Service Scheme (NSS)**
- Active Member of **KASTI** an NGO to uplift education in slum areas
- Member of **Anti Ragging Committee of College**
- Received **2nd prize** in Prathibha Prothsahan Pratiyogita **District Level Singing** competition

I consider myself familiar with all the subjects mentioned above. I am also confident of my ability to work in a team. I hereby declare that the information furnished above is true to the best of my knowledge.

Gentofte , 26/10/2024