



CHANDANA SREE MALA

Date of birth: 14/05/1996 | **Nationality:** Indian | **Gender:** Female | (+39) 0000 | Italy

About me: Being a fresher I seek a competitive and challenging environment which offers key participation, team oriented tasks, immediate challenges, and career opportunity which help me grow as a person and professional and in return serve your organisation and establish an enjoyable career for myself. I worked for ARCA Dynamics for one year in the field of Space craft Attitude determination and control and also have experience with several software's like Python, Matlab/Simulink, and basics of C-Language, basic HTML and Django.

● WORK EXPERIENCE

23/01/2019 – 23/01/2020 – Rome, Italy
GRADUATE INTERN – ARCA DYNAMICS

- Worked as Graduate Intern for one year.
- Project mainly focus on Design and Development of an experimental test bed for Hardware-in-the-loop simulation of star trackers.
- Worked on Attitude determination, angular velocity estimation and simulation of stars by using multiple software's like Python, Matlab and C-Language.
- Implementation of star tracker algorithms for spacecraft angular rate determination.
- Performed web market survey for the procurement of hardware components in Space, Optics and Electronics sectors.
- Prepared Verification & Validation plan for space projects with ECSS Standards.
- Worked on Raspberry pi 3 micro controller board and star sensor activities.
- Worked on several Image sensors like CMOS, CCD.
- Have strong command on Optics & Testing of Hardware components.

Rome, Italy

● EDUCATION AND TRAINING

13/10/2017 – 23/01/2020 – Rome, Italy
SPECIAL MASTERS IN AEROSPACE ENGINEERING – La Sapienza Università di Roma

Graduated in Special Masters in Aerospace Engineering gave me the immense knowledge and clarity of thought to face the professional career ahead.
Scoring the mark of 105/110 credits gave me happiness and confidence for my hard work and struggle which I have gone through all these years.

Field(s) of study

- Aerospace Engineering

105 | Design and Development of an experimental test bed for Hardware-in-loop simulation of star trackers

01/03/2013 – 13/06/2017 – Pulivendula, Andhra Pradesh, India
BACHELORS IN MECHANICAL ENGINEERING – JNTUA Pulivendula

Having a strong basement in Mechanical Engineering I have gathered a lot more knowledge and interest towards my future studies.
Cleared all my exams by acquiring 7.3/10 GPA in my Bachelor Studies.

Field(s) of study

- Mechanical Engineering

7.3 | Autonomous rotary car parking systems

● LANGUAGE SKILLS

Mother tongue(s): TELUGU

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C1
HINDI	C1	C1	C1	C1	C1
KANNADA	B1	B1	B1	B1	B1
ITALIAN	A2	B2	A2	A2	A2

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

● TECHNICAL SKILLS

Technical skills

- Attitude Determination and Control Systems(AOCS)
- Hardware-in-loop simulations
- Orbital simulation tools
- Guidance,Navigation and Control
- Kalman filtering
- Optimal control
- Designing of satellite components
- Space flight mechanics

● ORGANISATIONAL SKILLS

Organisational skills

- Dedication
- Hard work
- Problem solving
- Teamwork
- Leadership
- Attention to details

● PROGRAMMING SKILLS

Job-related skills

- Matlab
- Python
- Basics of C Language
- Catia
- Solidworks
- Ansys
- Basics of HTML

● OTHER SKILLS

Projects & Certifications

- 1) Successfully completed & got certified for Matlab on-ramp course conducted by Mathworks.inc
- 2) Wrote a MATLAB code to plot the GPS constellation(31 satellites) around the earth using the data from the Almanac site. Also, I did plot the G-Dop curve for different time periods of the day to and out how accurate our GPS measurements are. This gave a lot insight into the subject of Navigation and GPS.
- 3) Successfully designed and compared different types of nozzles in solid works and analysed the amount of stresses each metal bears by doing meshing in Ansys software.
- 4) Completed Python learning course and got certified.
- 5) Successfully completed Inplant Training on manufacturing techniques & Got certified for a mini project entitled Modeling and assembly of shock absorbers from Central Institute of Tool Design Hyderabad, India.