

Para 1:

I am from IIT Bombay, pursuing BTech in aerospace engineering. From childhood, I have been struggling because of being not financially fit. Studying on scholarships and education grants. I have been provided with a 60% waiver on college fees, and my high school coaching fees also had a 50% waiver. I am a very bright student from the start; my parents have always given their best to provide me with all the resources they could. My father, who works at a book store and my mother, who takes part-time tuitions, work hard to meet my financial requirements. Asking them to pay some more money for an extra course will increase their burden. I don't know how will they manage to pay for the additional knowledge that I want. I just don't want money to become a hurdle to my career, getting a financial aid will help me to gain understanding and get further into this course which will inevitably change the course of my career.

Para 2 (Robotics- Perception)

I am currently looking for a summer internship in the field of Robotics and autonomous vehicles. I have also worked on various projects including RC planes, Ground Vehicles capable of doing specialised tasks and even autonomous aerial vehicles, including quadcopters and fixed-wing plane. These robots use onboard sensors to complete the required tasks and the data received can be very noisy, which makes it essential for the robots to incorporate uncertainty into estimating and learning from a dynamic and changing world. This course will teach me about probabilistic generative models, Bayesian filtering for localization and mapping, all of which are very essential to expand my knowledge base. Having completed 2 courses of the robotics specialization & already doing the third one (which too would be completed soon), I plan to move on to further courses to complete this specialization. This course has the perfect content required by me to extend my knowledge and understand the concepts & technology deeply to be able to create something new & innovative. I would further use my knowledge for implementation on Hardware that I am already working on. This course will surely help me to make a path and start a career in the fascinating field of robotics. Doing this course will give a headstart to my career.

Para 3:

The source of income is not stable, so I am not sure if I will be able to pay it or not. In the case of the latter, it will only become an added burden on my parents which I do not want.

Para 2 (Hypersonics):

I am currently looking for a summer internship in the field of Hypersonic Computational Fluid Dynamics & Scramjet Analysis. I have also been working on a project where I simulate flows and use mathematical models to detect shocks and then analyze the flow. This requires me to have deep knowledge about the various numerical approximation methods used as well as the errors associated with them along with their advantages and disadvantages. Understanding these and being able to implement them using Python is absolutely necessary for me to extend my work to Hypersonic CFD. This course has the perfect content required by me to extend my knowledge and understand the concepts & technology deeply in order to be able to create something new & innovative. This course will surely help me to

make a path and start a career in Scramjets & other vehicles operating in the Hypersonic regime. Doing this course will give a headstart to my career.

Para 2 (Spaceflight):

Being an Aerospace Engineer, Space-crafts have always fascinated me. After doing various courses regarding these in my Institute, I have felt a keen interest in the dynamics and controls of Spacecrafts. I have also been working on a project where I regenerate the path of a past mission using various approximations. This project has provoked me to study the subject in-depth and so I decided that I will do the Spacecraft Dynamics and Control Specialization. I have already begun work on the first course of this specialisation and would like to move further towards completion. Having a controls background and aerospace engineering as my Majors, I believe that this course will actively add on to my knowledge, I will be able to apply the skills learned by me in the previous courses to a two-spacecraft mission to Mars. Including tasks like determining the kinematics of the orbit frame, numerically simulating the attitude dynamics of the spacecraft in orbit, and implementing a feedback control and many more, this course has the perfect content required by me to extend my knowledge and understand the concepts & technology deeply to be able to do meaningful research in the field in the future. This course will surely help me to make a path and start a career in Spacecraft controls. Doing this course will give a headstart to my career.

Archive:

Para 2 (Robotics-Mobi)

I am currently looking for a summer internship in the field of Robotics and autonomous vehicles. I have also worked on various projects including RC planes, Ground Vehicles capable of doing specialised tasks and even autonomous aerial vehicles, including quadcopters and fixed-wing plane. Having in-depth knowledge of mobile systems is a very crucial aspect for this. This course will teach me about linearization, control design and navigation, all of which are very essential to expand my knowledge base. This course has the perfect content required by me to extend my knowledge and understand the concepts & technology deeply to be able to create something new & innovative. I would further use my knowledge for implementation on Hardware that I am already working on. This course will surely help me to make a path and start a career in the fascinating field of robotics. Doing this course will give a headstart to my career.

Para 2 (Robotics- Perception)

I am currently looking for a summer internship in the field of Robotics and autonomous vehicles. I have also worked on various projects including RC planes, Ground Vehicles capable of doing specialised tasks and even autonomous aerial vehicles, including quadcopters and fixed-wing plane. Having in-depth knowledge of how robotic systems perceive their environment is a very crucial aspect for this. This course will teach me about computer vision, estimation & RANSAC, all of which are very essential to expand my knowledge base. Having completed 2 courses of the robotics specialization & already doing the third one (which too would be completed soon), I plan to move on to further courses to complete this specialization. This course has the perfect content required by me to extend my knowledge and understand the concepts & technology deeply to be able to create something new & innovative. I would further use my knowledge for implementation on Hardware that I am already working on. This course will surely help me to make a path and start a career in the fascinating field of robotics. Doing this course will give a headstart to my career.

Para 2 (Robotics-Controls)

I am currently looking for a summer internship in the field of Robotics and autonomous vehicles. I have also worked on various projects including RC planes, Ground Vehicles capable of doing specialised tasks and even autonomous aerial vehicles, including quadcopters and fixed-wing plane. This requires me to have in-depth knowledge about the various aspects of an autonomous system. Starting from controls, as it is the most fundamental aspect of an autonomous system.. This course has the perfect content required by me to extend my knowledge and understand the concepts & technology deeply to be able to create something new & innovative. I plan to extend the knowledge gained from this course into building my custom flight controller, among other things. This course will surely help me to make a path and start a career in the fascinating field of robotics. Doing this course will give a headstart to my career.