



TUNSA Space Robotics

3rd Kibo-RPC Interview Guidelines

Must-haves

- Highly motivated individual with a desire to innovate in the Space Robotics field
- Modest experience and/or expertise in the Robotics field (competitions, hackathons, courses...)
- Passionate about teamwork regardless of the platform (online, face-to-face)
- English proficiency (B2)

Nice-to-haves

- Android programming with Android Studio (Kotlin, C++, Java)
- Image processing with Java
- Source code management with Git/GitHub/Sourcetree
- Modest Experience with project Management Apps (Clickup, Notion, Trello, Discord...)
- Modest knowledge in one or many of these subjects:
 - College-level knowledge of physics and/or mathematics
 - Forward and inverse kinematics, gravity
 - PID control: manual and automatic tuning methods,
 - Jacobians, singularities, dynamics, artificial potential fields, DH parameters
 - Visual servoing, computer vision, image Jacobian
 - Mapping and Localisation, recursive estimation
 - Motion Planning, mobile manipulation

Eligibility

- The basic qualification is that you are a student up to graduate level from Tunisia who expresses interest in participating in the Kibo-RPC
- Non-students may be eligible to compete if they are not professional programmers
- Students who study abroad can form a team representing their home country with foreign students.
- A team is comprised of 3 to 4 members

- Each team should have a coordinator participant from the TUNSA Space Robotics team
- Each team must have a leader who is responsible for team management. A student in a team or guardian can be the representative.
Note: A team coordinator is not necessarily a team leader.
- Underage applicants must first obtain parental consent.

Interview Questions

1. What are your interests?
2. Why are you interested in joining us? What do you expect from this competition? What do you think will be the added value to yourself and to the country as a whole?
3. Do you have any past experience in Robotics competitions? If so, describe your experiences!
4. Do you have any expertise in one or more of the above technical tools and subjects? (refer to Nice-to-haves)
5. What skill or expertise the competition team may lack that you think you will be able to provide?
6. How can you describe your experience with teamwork? What do you think are the best practices for a team to be successful?
7. Considering that you may have an internship in the summer and other activities, how many hours per week do you think you'll be able to allocate for this competition?
8. Do you think any discrepancies in age or knowledge level between team members may hinder your performance or demotivate you in any way?
9. Are you ready to tackle any kind of problems, even if they require a tremendous amount of research and lengthy courses/videos?
10. How do you manage in a stressful environment or situation?
11. If you're in a very busy schedule, what do you see yourself prioritizing: Competition deadlines/tasks, tasks related to other clubs/organizations, or your personal life?
12. Do you have any suggestions or solutions that may improve our workflow and participation in this competition?
13. Are you interested or will you be interested in joining the TUNSA Space Robotics team in the future?