## General Information for This Template

* The Learning Journal is only required for teams participating in the following leagues/sub-leagues:
* RoboCupJunior Leagues
  + - RCJ Rescue Line, Primary
* RCAP CoSpace Leagues
  + - RCAP CoSpace Autonomous Driving, U12
    - RCAP CoSpace Rescue, U12
* Use Learning Journal to record ideas, inventions, experimentation records, observations and all work details.
* Emphasizing on “how to” make it more informative and the thought process going into logging their own work.
* This template contains a suggested structure for your Learning Journal. You may only use the parts which are suitable for your own league/sub-leagues instead of including all parts as stated in the template.
* There is no page limit for the learning journal as the section 6 could contain may pages.
* All figures and tables should be properly numbered.
* Submit the learning journal as a **PDF file**.



**RoboCup Asia-Pacific 2024**

**Learning Journal**

(Cover Page)

|  |  |
| --- | --- |
| League Name: |  |
| Age Group: |  |
| Team Name: |  |
| Team Website: |  |
| Participants and Technical Roles |  |
| Team Photo |  |
| Mentor Name: |  |
| Institution: |  |
| Region: |  |
| Contact Person: |  |
| Contact Email: |  |
| Date: |  |



**RoboCup Asia-Pacific 2024**

**Learning Journal**

League Name

Team Name

Student 1, Student 2, …

(Region)

## About the Team

* Team background, including website and video link (if you have).
* Brief description of roles of each participant in the team and past experiences.

## Project Planning

* Talk about your aim for the competition.
* Describe the overall project plan.

## Milestones

* Explain your milestones.

## Robot Structure and Program

* Hardware
  + Give the main structure of each robot (you can use drawings and diagrams to support your explanations).
  + Briefly explain the function of each senor and actuator used.
  + Type of controller used in the robot.
* Software
  + Use diagrams or flowcharts to explain how you program the robot to complete the task.
* Workability
  + How does this robot work?
  + Does the robot be able to complete the prescribed task?
* If you have multiple robots, state it one by one.

## Innovative solutions

* Explain any innovative solutions/approaches you used to tackle the challenge.
* Any “AI” tools, such as ChatGPT used in solving the task?

## Learning Journal (This section could contain many pages)

* You should enter all original concepts, data, diagram for your design into your learning journal while having the activities. You can use the template below for each of your activity: -

**Date of the activity**

**Task:** name of the task for today

**Agenda:**

* List of tasks for the day

**Process:**

* Write down what you have done and what you have discovered for the day.
* A modification in a discovery algorithm.
* A new and complicating feature discovered.
* Other finding will result in a modified approach.
* Highlight interesting findings, especially those unexpected.
* etc
* Indicate the reference used, such as web site, code examples, diagrams, other data used, etc.

|  |  |
| --- | --- |
| **Issues** | **Solutions** |
| List the issues need to be tackled for the day. | State the solution for each issue. |

**What is the next:**

* Brief planning for the next activity.

**Team:** name of your team

## Acknowledgements

* This could be someone from a sponsoring institution, a funding agency, other researchers, or even family members or friends who have helped in the preparation.

## References

* References to external sources used for major parts of the development process.

## Appendix (optional)

* Any additional information you wish to include, such as sample code, robot specifications, etc.