

TECHNICAL ASSIGNMENT

Junior Technician

Social Cognition in Human Robot Interaction
Istituto Italiano di Tecnologia, Genova

1. Choose one of the following classic computer science problems: producer/consumer (bounded-buffer), dining philosophers, sleeping barber.

Hints: make sure you pick the one you think you understand best.

2. Describe the problem you have chosen in your own words and style. Hints: write a synthetic description in English and use practical examples if needed.

3. Describe the problem you have chosen using any formal language or model of computation of your preference.

Hints: anything that would tell us how familiar you are with software engineering design tools such as UML or FSM.

4. Write a Python application that implements the problem you have chosen.

Hints: multithreading, OOP, the less code the better, abuse of standard libraries.