2023 Summer Camp Agenda

Daily Activity Schedule:

10:00 am – 12:00 pm  Activity
12:00 pm – 1:00 pm  Lunch
1:00 pm – 3:00 pm  Activity

Planned Activities:

- Mechanical Engineering Design and 3D Printing
- Mechanical Engineering Testing (Drag) Using the Wind Tunnel
- Creating App Using the MIT App Inventor
- Coding
  - Programming concepts
  - Programming language (C, Python)
  - Learning how to code with ChatGPT
- Microprocessors
  - Fundamentals of analog and digital electronics
  - Sensors
  - Controlling hardware with microprocessors (Arduino, Raspberry Pi)
  - IoT (Internet of Things) applications
- Projects
  - Generating electricity with a windmill
  - Autonomous drone
  - Autonomous land rover
- STEM Open House and Drone Racing Competition

Notes:

1. Participants will be grouped according to the level of experience of the students.
2. The detailed daily activity will be designed for each experience level.
3. Teams will be formed to execute the projects planned for the camp.