

# Robotics & STEAM Summer Camps - 1 Day

For the age of 7 to 14

## 1. Robotics & STEAM Bootcamp

 Duration: 4-6 hours

 Age: 8 to 12 Years

 Prerequisite: Havi's customized kit - Motor pack

 Projects covered: Newton's disc model, Carnival ride model, Ferries wheel model, Scribble bot, Wind mill model, Water pulley system and many more.

## 2. Robot Car Making Workshop

 Duration: 4-10 hours

 Age: 8 to 13 Years

 Prerequisite: Havi Elements - DIY Robotic Car Kit

 Projects covered: Children will build designer robot car along with smart car functions like - Follow me car, Touch me not car, Obstacle avoider car, Edge avoider car, Reverse parking sensor smart car, Front accident avoider car, automatic brake lights' car, Line follower car and many other STEAM projects

## 3. Smart basketball hoop making

 Duration: 1-1.5 hours

 Age: 7 to 12 Years

 Prerequisite: Havi's customized kit - Smart basketball hoop pack

 Projects covered: Children will make tabletop smart basketball hoop using wooden plates and Havi Elements. They will also learn the working of IR sensor. Additional projects - Door open close detector, Touchless doorbell, Fire alarm, Water overflow alarm and many more.

## 4. Amusement rides' projects

 Duration: 2.5-3 hours

 Age: 7 to 12 Years

 Prerequisite: Havi's customized kit - Motor pack

 Projects covered: Carnival ride project model & Ferries wheel project model.

Contact us to know more:

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# Robotics Summer Camp - 5/6 Days long

For the age of 8 to 14. 2 Hours per session

Prerequisite: Havi Elements - DIY Robotics Starter Kit

**Session 1**

- 10 Greetings, settling, kit distribution
- 7 Introduction to Robotics
- 10 Simple alarm circuit snapping
- 10 Simple torch project making
- 20 Simple bot & variation - make artist bot using water colors
- 15 Newton's disc model, Basic fan model
- 20 Scribble robot, Robotic insect
- 10 Water pump experiment
- 20 Ideal for water breaks, Q&A, Difficulty solving etc during the entire session

**Session 2**

- 10 Greetings, settling, revision
- 30 Making of basic robotic car & exploration + Play time
- 15 Circle drawing car
- 15 Understand how IR Sensor works + worksheets
- 15 Smart basketball hoop project
- 20 Fitness gadget project & exploration + Play time
- 20 Ideal for water breaks, Q&A, Difficulty solving etc during the entire session

**Session 3**

- 10 Greetings, settling, kit distribution
- 15 Automatic hand dryer project
- 20 IR Based smart streetlight project
- 40 Automatic water dispenser project
- 20 IR Based smart car functions
- 15 Ideal for water breaks, Q&A, Difficulty solving etc during the entire session

**Session 4**

- 10 Greetings, settling, kit distribution
- 10 Application of Flip with IR
- 20 Object lift detector
- 10 Obstacle avoider car
- 10 Reverse parking sensor smart car
- 10 Brake lights car
- 30 Stop the circle game - Making & playing
- 15 Ideal for water breaks, Q&A, Difficulty solving etc during the entire session

**Session 5**

- 10 Greetings, settling, kit distribution
- 10 How does light sensor works
- 15 Smart streetlight project
- 15 Smart farm watering system
- 15 Automatic headlight smart car
- 40 Line following robot
- 15 Ideal for water breaks, Q&A, Difficulty solving etc during the entire session

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