Marvels @ ICNA MAS Convention 2023 - Robotics - Room 330

Saturday, May 27th 2023

Name	Title/Topics	Timings	Comments	Age Group
Marvels Teams	Robotics Showcase	2:00PM-10:00PM	Open Area will be provided	Open
Marvels Teams	Kicking off Robotics in your Community	2:00 PM - 3:00 PM	Learn about the positive impact of implementing a robotics program in a Masjid/School, and hear from Marvels students about their successful experience.	Open
Marvels of MAS	3D Modeling for beginners	3:00PM-4:00PM	Onshape modeling to create your own designs	7-11
Marvels of MAS	Introduction to Robotics using Lightbot	4:00 PM -5:15 PM	Bring your own laptop. Ages 7-9. Introduction to block-based coding	7-9
Marvels of IAR	Interactive Robotic Workshop	6:00 PM - 8:00 PM	Bring your own laptop. Ages 10-16. In this robotics workshop, students aged 10 to 16 will work in teams to build and program small robots. The teams will work in parallel to complete their robots, and will then test them and compete in a hover ball competition. The objective of the competition is to score the highest number of points, and the team with the highest score will be declared the winner. This hands-on workshop is designed to develop students' teamwork, problem-solving, and programming skills in a fun and engaging way.	10-16
Marvels of MAS	Effective Presentation Skills	8:00 PM - 9:00 PM	Ages (12-16) Teach and apply the art of giving presentations	12-16
Marvels of MAS	Advanced 3D Modeling	9:00 PM - 10:00 PM	Walkthrough of advanced 3D modeling software and sessions to CAD a small assembly	12-16

Sunday, May 28th 2023

Name	Title/Topics	Timings	Comments	Age Group
Marvels Teams (MAS + IAR)	Robotics Showcase	11:00AM-7:00PM	Open Area will be provided	Open
Marvels of MAS	Bring Art into STEM (STEAM)	11:00 AM - 12:00 PM	Art workshop to create effective posters or drawings to communicate your ideas	10-14
Marvels of IAR Workshop	Introduction to coding using Scratch	12:00 PM - 1:30 PM	Bring your own laptop. Ages 8-12. In this coding workshop, kids aged 8 to 12 will be introduced to coding using Scratch blocks, a visual programming language. The workshop will cover the basics of coding through interactive and engaging activities. Students will learn how to use Scratch blocks to create their own programs and will leave the workshop with a basic understanding of coding concepts and how to apply them in the real world.	8-12
Marvels Teams	Kicking off Robotics in your Community	2:00 PM - 3:00 PM	Learn about the positive impact of implementing a robotics program in a Masjid/School, and hear from Marvels students about their successful experience.	Open
Marvels of MAS	Programming with Legos	3:00 PM - 5:00 PM	Bring your own laptop. Ages 8-12. Build your own Lego bots, program them and accomplish missions or make them dance (ages 8-12)	8-12
Marvels of MAS + IAR	Robotic Coding Workshop	6:00 PM - 8:00 PM	Bring your own laptop. Ages 12-16. In this robotics coding workshop, each student with work through tutorials on their own to figure out how to move a 3d robot. Then they will be able to go through more "levels" to make the robot capture the flag. Following the virtual coding session, kids will engage in applying thier acquired skills to program and compete physical robots similar to those used in FIRST TECH CHALLEGE Competitions.	12-16