



The Dobot Magician from IntegrityRobotics at your campus

Nagpur | 31.05.2018 |

IntegrityRobotics' Team



What is it?



i Priming for Industrie 4.0

DOBOT
Your Changing Partner

DOBOT MAGICIAN

Laser Kit 3D Printing Kit Writing & Drawing kit Vacuum Suction Cup & Joint 4 MORE +

INTELLIGENT TRAINING ROBOT
INDUSTRIAL ACCURACY AND STABILITY



Product Family

DOBOT Magician has many ready applications available by its family products, and there will be more. They can be applied to educational topics like industrial 4.0, intelligent manufacturing, intelligent logistics, artificial intelligence, big data, etc.

DOBOT Magician - Basic Plan



Provides basic functions of a robot arm to experience

DOBOT Magician - Education Plan



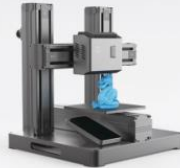
Includes all functions of Basic Plan and advanced functions : laser, Bluetooth connection, wifi connection, Joystick control.

DOBOT Magician - Conveyor Belt Kit



Build an intelligent mini-production-line with DOBOT Magician, color sorting and sensor functions included.

DOBOT MOOZ



Multi-functional 3D printer with 3D printing, laser engraving and CNC.

DOBOT Magician - Visual Kit



Allows you to build a real Visual sorting system with DOBOT Magician. A developer library included to help you build more visual applications with DOBOT.

DOBOT Magician - Linear Rail Kit

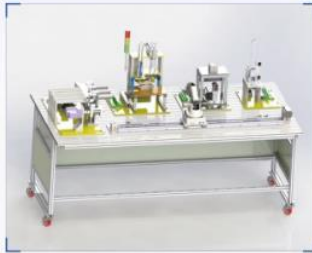


Largely extends the working range of DOBOT Magician, ready software function integrated.



Made for Real factory floor, Practical, Robotic Training

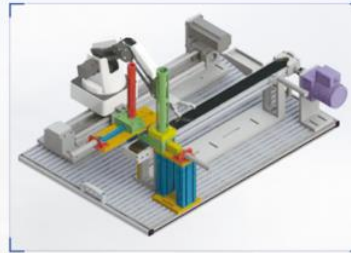
- ⊗ **High Standard** — DOBOT Magician applies to major international standards like CE, RoHS, ERP, FCC, KC, PSE, TELEC, etc.
- ⊗ **Multi-Robot Collaboration** — You can control several Dobot Magician by the same device only, which allows Multi-Robot Collaboration.
- ⊗ **Cost-Effective** — With a fair and reasonable price, DOBOT Magician has **0.2mm** repeatability which can simulate almost all real factory robot applications.
- ⊗ **Training Curriculum** — Multiple applications and training curriculum available. An open platform for robot education like **Industrial 4.0, Automation, PLC, etc.**
- ⊗ **Free Combination** — DOBOT Magician is compatible with multiple accessories such as linear rail kit, conveyor belt kit, visual kit, and crawler robot to apply different training projects.
- ⊗ **Secondary Development** — DOBOT Magician is compatible to develop user applications with its 13 I/O ports, API, released protocols. It can be developed with over 20 programming languages, ROS, PLC, Microcontroller and Arduino.
- ⊗ **Hands-on Experience for Everyone** — Dobot Magician is low cost, small size, and easy operation, which allows every student to practice on their own. it improves the teaching efficiency dramatically. It can be controlled by Programming, APP, Bluetooth, WiFi, Mouse, Joystick, and more.



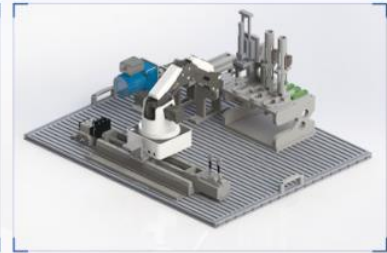
Automatic Production Training



Photoelectric Integration Training



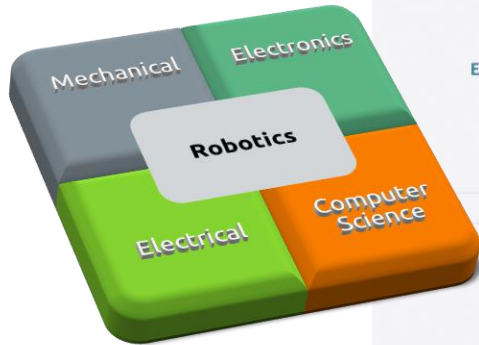
Motion Follow Control System Training



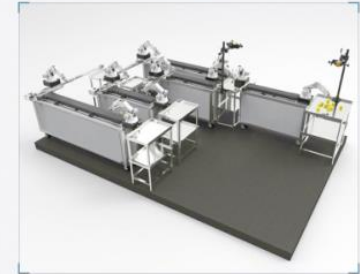
Automated Assembly Line Training



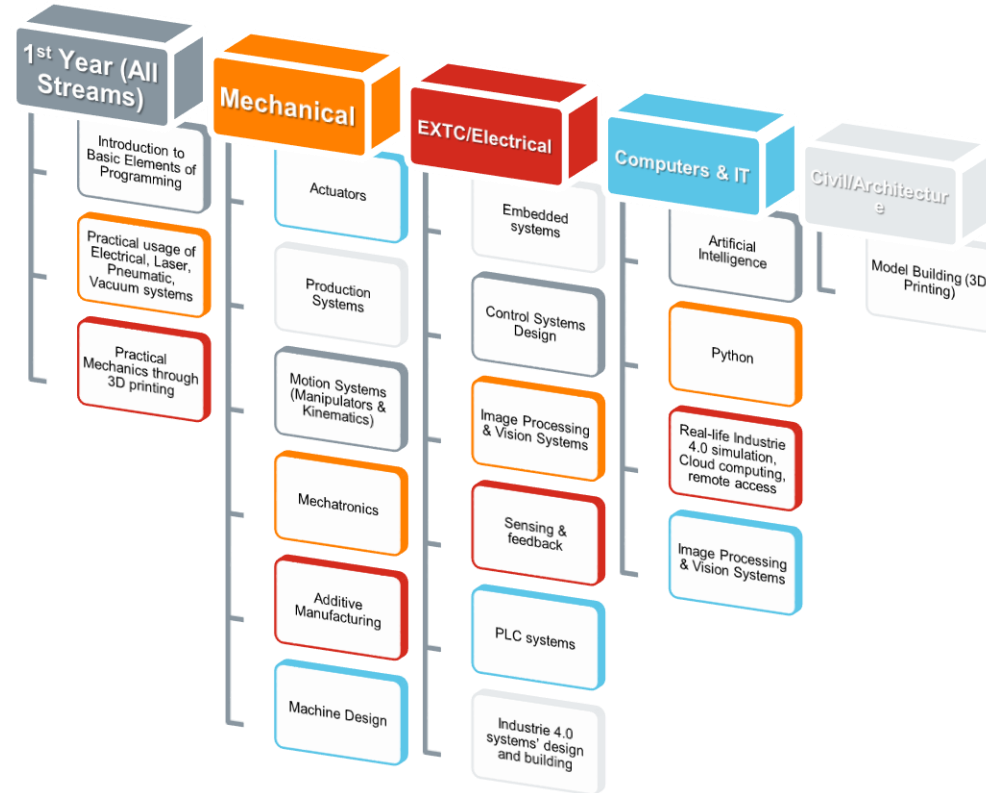
Wide Applicability for most engineering streams



Applicable Training Topics	
Entry	Basic Programming: C, C++, JAVA, Python, Blockly, Coding with Arduino, Coding with Scratch
	Understanding of Industrial Robots: Manipulator pose, kinematics and control
	Understanding on active and passive sensing and feedback control techniques
	Engineering and Robot Safety
Basic	Intermediate programming: Major programming languages, labview, matlab
	Electronic and Electrical Measurement Control
	Mechanical Design Control
	Embedded System Control
	CIM(Computer Integrated Manufacturing)
	Secondary Development
	Engineering and Robot
Advanced	Robot Maintenance And Repair
	Robotic Visual System
	Multiple application building
	Production Line Simulation
	Aluminum Frame Type, Metal Processing
	Robotic Competition



Potential Academic Course Matrix



Notable Client References...

6000+ Installations globally

A few in India:

- Ambalika University
- IIT Roorkee

VOLKSWAGEN WITH DOBOT

Name: Volkswagen plant simulation and learning factory

Time: September 2017

College Major: Industrial 4.0, Volkswagen academy

Summary:

Volkswagen has made a full production line simulating the real car assembly line, assembling a model bus. In each station, there is detailed screen demonstrating the real situation. Dobot Magician works perfectly in the line. Videos available on Youtube.

- Dobot Magician is integrated with the PLC system.
- Dobot Magician works in multiple stations performing different functions.
- The whole system is also very high tech.



UNIVERSITY OF TECHNOLOGY SYDNEY

Name: Dobot Magician used in multiple teaching subjects as demonstration and students assignments

Time: February 2018

College Major: Mechanical and Mechatronics Engineering major, Centre for Autonomous Systems, Mechatronics & Intelligent Systems Group FEIT

Summary :

Introduction to industrial robotics and the underlying algorithms and mathematics, theoretical and practical understanding on active and passive sensing and feedback control techniques, ability to select and evaluate sensors, process the sensor data, and apply computer-based tools for practical control system design using the sensory information.



TSINGHUA UNIVERSITY WITH DOBOT

Name: Industry 4.0 Intelligent System simulating real production line with sand table

Time: June 2016

College Major: Basic Industrial Training Center

Summary:

The system simulates a typical cutting-edge robot production line with DOBOT Magician.

Bullet points:

- Pick & Place: Dobot Magician performs basic functions of an industrial robot arm, picking and placing.
- Sort: connected with visual system, Dobot Magician sorts by shapes or colors.
- Assembly: DOBOT Magician can accomplish quick assembly in different positions with a conveyor belt kit.



Light Industrial Applications

Industrial/Semi-industrial/Prototyping applications in India:

- Phillips Innovation Centre
- Login2IT
- Ssigma
- L&T



Smart Card Detection
(Uploading/Download and Sorting)



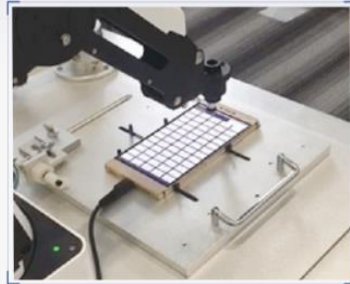
Gold and Jewelry Weighing
and Sorting



Glass Slides Uploading and
Downloading (Microscope Assisted)



Chip Sorting and Testing



Phone Screen and Button Testing



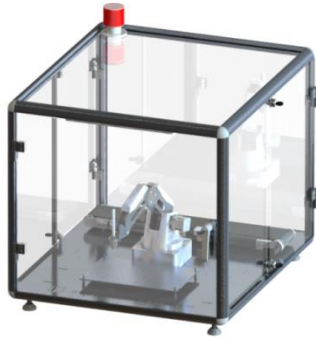
Intelligent Filling System



Robot Spraying



Deployment Concepts



Our Robot Work-cell: The Innovation Lab



Customised training Work-cells



Robot Work-Rooms



IntegrityRobotics
thanks you for the opportunity to serve!



You are welcome at

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