6 Embedded and Robotics System Laboratory

Main Activity

- Embedded system design and Reinforcement learning

Research topics

- Self-driving car
- Embedded system
- Reinforcement learning
- Image Process
- Digital signal process

Courses

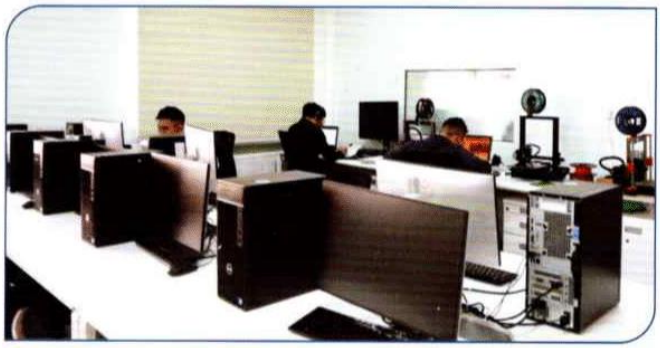
- Fundamentals of image process
- Robot training and Modeling
- Smart robot modelling

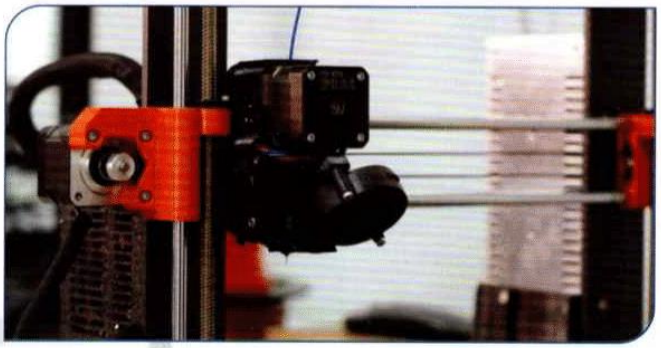
Main equipment

- High-speed data logger
- Asus Xtion 2 depth image
- WeGO -ERP 42MINI - RC car
- AIoT Serbot Series Medium size robot
- Hanback DSP - II trainer
- Holybro X500 Pixhawk 4 Drone
- Robotis OP3 Humanoid Robot
- PowerDebug Module TRACE32 - JTAG for I.MX8
- Raspberry Pi 3 Application Kit for IoT
- EPOC Flex Gel sensor

Software

- LabView NXG professional edition
- 8085 Simulator IDE
- Proteus





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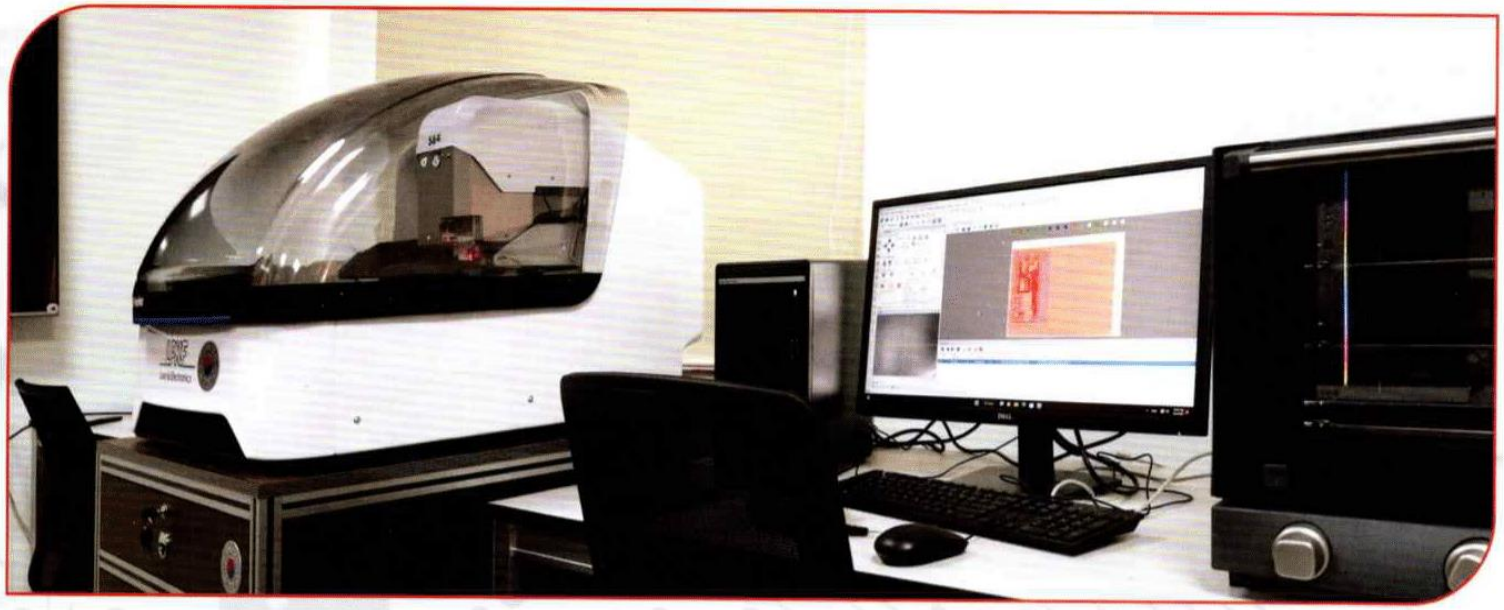

3 Chip Design Lab

Main Activity

- Research, innovation and academic excellence in cyber security

Research topics

- Logic design, FPGA
- Quantum computer
- Semiconductor Device
- Automation
- Robotic technology
- IoT system design
- Artificial Intelligence

Courses

- Logic design, FPGA
- Semiconductor IC technology
- Driver Programming
- CMOS design
- VLSI

Main equipment

- PCB Prototyping Machine, LPKF ProtoMat S64
- Lambda labs Workstation for AI training
- FPGA Digital Circuit Design Trainer HBE-Combo II-DLD
- Xilinx Digilent ZedBoard Zynq-7000
- Digilent Pmod GPS
- Digilent Pmod MTDS

Software

- LabVIEW Education AVL
- Proteus PCB Design Starter Kit

lambda labs

SEM EM-30

PCB prototyping line

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