We train on *your* schedule.

Visible Edge Institute has been providing classroom training for over 30 years and remote training for over a decade. Our flexible, comprehensive training programs are designed to accommodate individuals of *all* skill levels.

As a Licensed Post-Secondary Educational Institution, our training provides students with hands-on experience, in-depth skills in leading applications, and industry-recognized certifications. You'll get the opportunity to earn industry-recognized certifications in all of our programs.

Train remotely or in-center, while maintaining on-demand access to our live instructors. Students can also access training lessons 24/7 for self-study.

Remote Attendance: Remotely tap into our training center to work directly with live instructors on-demand via phone, video call, screen sharing, email, chat or text.

In-Center Attendance: Choose to attend training in our physical training center on your schedule, not ours. Our renovated in-center learning environment utilizes state of the art equipment and modern learning techniques including one-on-one live instructor interactions, digital materials, labs, and project work.

You may qualify to have your entire program paid for, 100%, with no out-of-pocket costs to you. All programs are federally approved by WIOA, Section 30, Trade Adjustment Act, Vocational Rehab, and more.

We are a Veteran Friendly Institution.

®

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). For more information about education benefits offered by the VA, visit the official U.S. government website at http://www.benefits.va.gov/gibill.

GLOBAL HEADQUARTERS

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Ve-I reserves the right to change fees, courses, topics, policies, programs, services and personnel as required. "On-Demand" refers to instructor and facility access during our normal business hours, which are Monday – Friday from 8:00AM to 5:00PM except Federal Holidays and shutdowns. Instructor support is limited to purchased training materials and labs. Remote setup assistance is included.

ROBOTICS & THE INTERNET OF THINGS (IOT)

Learn about basic electronics and the associated tools used in robot operating systems, robotic drives, robot programming, and applications.

VISIBLE EDGE

ENTER THE EMERGING WORLD OF ROBOTICS AND THE INTERNET OF THINGS (IOT)

This program teaches you the basics of both Robotics and the Internet of Things (IoT) through a series of hands-on robot building projects.

Start with lessons on basic electronics, associated tools, and equipment. Then, progress on to build your own robots while learning the basics of robot operating systems, robotic drives, and associated physics. To program, control, and interact with your robots, you will also learn how to utilize two popular, credit card sized computers.

Continue on in the program to learn about hardware, motor controls, PLC fundamentals, CNC machines, circuits, magnetism, control devices, distribution systems, hydraulic & pneumatic components, machine tools & operations, Arduino Programming, Robotic Process Automation (RPA), and more.

A vast range of electives are also included in the program to boost your resume, expand your skill set, strengthen your knowledge, increase your employment marketability, and give you a competitive edge.

Choose from our wide selection of unique electives - ranging from motor controls fundamentals, to mechanical design, mechanical systems, fluid systems, manufacturing process applications, engineering sciences, additive manufacturing (3D printing), process flowcharts, process mapping, MATLAB, R Programming, LabVIEW, Microsoft Azure, DevOps, AWS, and other related topics.

LEARN TO...

Master modern robotics. Cover mechanics, planning, robot motion, robot kinematics, dynamics, manipulation, electrical controls, and other similar concepts.

Use microcontrollers for IoT, utilize Arduino & Raspberry Pi for robots & the IoT, develop Industrial Internet of Things (IIoT), and embed sensors and motors.

Grow programming skills and gain knowledge in Python, R programming, Pandas, Excel, LabVIEW, MATLAB, Tableau, Java, SQL, Machine Learning, and other crucial skills.

Choose to explore the engineering side of things, associated with mechanical & electrical engineering, physics, thermodynamics, fluid mechanics, hydraulic systems, heat transfer, welding, project management, and more.

YOU'LL HAVE THE OPPORTUNITY TO EARN INDUSTRY-RECOGNIZED CERTIFICATIONS, INCLUDING BUT NOT LIMITED TO:

Java SE 8 Programmer II

Oracle MySQl 5.7 Database Administrator

CORE CURRICULUM FOR THIS PROGRAM INCLUDES...

- Arduino Programming
- Motor Controls Fundamentals
- Mechanical Systems Fundamentals
- Manufacturing Processes & Sciences
- PLC Fundamentals
- Robotics Fundamentals
- Robot Framework Test Automation
- Robotics Operating System (ROS)
- Robotic Process Automation (RPA)

ADDITIONAL ELECTIVE TOPICS INCLUDE...

- Microsoft Azure IoT
- IoT Boards
- Industrial Internet of Things (IoT)
- Google Cloud Platform
- Embedding Sensors & Motors
- Programming the IoT
- Machine Learning
- Artificial Intelligence (AI)
- Modern Robotics
- Foundations of Modern Robot Motion
- Electricity, Electronics, & Electrical Controls
- Industrial Automation with PLC's
- System Dynamics & Controls
- Physics
- Data Analysis with Pandas & Python
- Data Analysis with Excel
- LabVIEW
- MATLAB
- Root Cause Analysis
- Statistics for Data Science & Business Analysis
- Applied Statistical Modeling
- Tableau
- Computer Science
- R Programming
- Java Programming
- Python Programming
- Public Speaking for Engineers
- *and more.*

To learn more about this program, please visit:
https://www.visible-edge.com/robotics-and-the-iot/