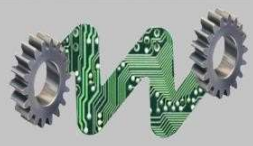

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SINCE -2011
+14 Years Expert,
+200 workshop,
+300 Seminar,
Thousand's of Students
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Placement,
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Online and Offline
Training ability
Weeks, Months and Year
Types of courses

We do start from very basic for more understanding

Pune , Nashik , Jalgaon

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Dnyaneshwar Paduka Chowk FC Road Shivajnagar, Pune 411005

TECHANICAL

PLC Delta, siemens
Allen Bradley
HMI, VFD,
hydraulic and pneumatic
8051, AVR, PIC, ARM, ESP8266
ESP32, Arduino, STM, Rpi,
MATLAB, C, C++,
Python, Java,
Data science etc..

COURSES

All about Electronics
C, Bare metal programming
Micros, C++, Opps, Python,
Data science, PLC, DCS,
Industrial Automation, 8051 ,
Arduino, AVR, STM32,
Raspberry pi, pico,
Robotics
ARM, PIC etc..

About Training

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About Company

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ABOUT COMPANY

Established in the year 2011, our Electrosoft System, is one of the reputed names engaged in training, manufacturing and supplying extensive range of Data Communication, PLC, Device, Networking and Embedded Systems. Our strict adherence to quality has helped us to carve a niche for ourselves in the field of electronics and industrial automation data communication. We are facilitated with a technologically advanced infrastructure that is the epicenter of all our endeavors. Our infrastructure is manned by a competent workforce that is our biggest asset. The workforce comprises dexterous professionals, who are engaged in managing all our business operations. We are looking forward to expand our horizons and making our presence felt worldwide. As an integrated part of our expansion plan, we emphasize on forging strategic relationships with companies.

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www.electrosoftsystem.com electrosoftsystemfb@gmail.com

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www.electrosoftsystem.in

1. Internship Program on Industrial Automation

Objective:

This internship provides hands-on experience in industrial automation, covering PLC programming, SCADA, industrial communication protocols, and automation control techniques.

Course Content:

✅ Introduction to Industrial Automation & Control Systems
✅ PLC Programming & Ladder Logic
✅ SCADA Systems & Remote Monitoring
✅ Industrial Sensors & Actuators
✅ Industrial Communication Protocols (Modbus, Profibus, OPC UA)
✅ Industry 4.0 & Smart Manufacturing
✅ Hands-on Project: Automated Conveyor Belt System

Industrial Visits:

🔹 **Manufacturing Unit** – Learn about automation in assembly lines
🔹 **Power Plant** – Understand SCADA applications in energy automation
🔹 **Automotive Industry** – Explore robotic automation in vehicle production

Benefits:

✓ Practical knowledge of automation tools and software
✓ Certification in PLC & SCADA
✓ Industry exposure with hands-on projects
✓ Career opportunities in manufacturing, power plants, and smart factories

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Entrepreneurship Development Program (EDP)

1] Introduction to Tech Entrepreneurship
2] Business Model Development
3] Product Development & Prototyping
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7]Legal & Regulatory Framework
8] Hands-On Startup Project

Industrial Visits & Exposure:

🔹 Incubation Centers & Startup Hubs – Learn about funding & mentorship opportunities
🔹 Manufacturing & R&D Facilities – Understand industrial prototyping & scaling

Benefits of the Entrepreneurship Program:

✓ Transforms tech knowledge into business ventures
✓ Hands-on experience in building a startup
✓ Direct interaction with investors & incubators
✓ Enhances leadership, marketing & financial skills

2. Internship Program on Embedded Systems

Objective:

This program focuses on developing embedded systems using microcontrollers, IoT, etc.

Course Content:

✅ Introduction to Embedded Systems & Microcontrollers
✅ C & Python Programming for Embedded Devices
✅ Sensors, Actuators & Communication Protocols
✅ Real-Time Operating System (RTOS) Fundamentals
✅ IoT-Based Embedded Solutions
✅ Hands-on Project: Smart Home Automation using ESP32

Industrial Visits:

🔹 **Consumer Electronics Manufacturing Plant** – Learn about embedded controllers in home appliances
🔹 **IoT Development Company** – Explore embedded IoT applications
🔹 **Medical Device Industry** – Understand real-time embedded system usage in healthcare

Benefits:

✓ Hands-on experience with microcontrollers (Arduino, Raspberry Pi, ESP32)
✓ Industry exposure with real-time projects
✓ Knowledge of IoT integration
✓ Opportunities in IoT, automotive, and consumer electronics

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3. Internship Program on Robotics

Objective:

This internship aims to equip students with skills in robotic automation, control systems, and AI-driven robotics applications.

Course Content:

✅ Basics of Robotics & Control Systems
✅ Robotic Arm Kinematics & Motion Planning
🟩 Arduino & Raspberry Pi-Based Robotics
✅ AI & Machine Learning in Robotics
⬛ Industrial & Service Robotics Applications
🟩 Hands-on Project: Autonomous Line-Following Robot

Industrial Visits:

🔹 **Automobile Manufacturing Unit** – Learn about robotic assembly lines
🔹 **Aerospace Robotics Facility** – Understand robotic precision in aircraft production
🔹 **Smart Agriculture Farm** – Explore agricultural automation using robotics

Benefits:

✓ Hands-on robotics programming and assembly
✓ Industry exposure in robotic automation
✓ Certification in robotics programming
✓ Career opportunities in automation, industrial robotics, and AI-driven robotics

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4. Internship Program on Machine Learning

Objective:

This internship provides a foundation in machine learning, covering supervised and unsupervised learning, deep learning, and real-world applications.

Course Content:

✅ Introduction to Machine Learning & AI
✅ Python Programming for ML
✅ Supervised & Unsupervised Learning Algorithms
✅ Neural Networks & Deep Learning
✅ Industry Applications of ML (Healthcare, Finance, Manufacturing)
✅ Hands-on Project: Predictive Maintenance Model for Industrial Equipment

Industrial Visits:

🔹 **AI Startup Hub** – Explore real-world ML applications in business
🔹 **Finance & Banking Sector** – Learn about fraud detection using ML
🔹 **Manufacturing Industry** – Understand predictive maintenance using ML

Benefits:

✓ Hands-on ML model development
✓ Real-world applications in various industries
✓ Certification in Machine Learning
✓ Career opportunities in AI, data science, and analytics

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Industrial Visits & Exposure:

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5. Internship Program on Data Science

Objective:

This internship focuses on data science techniques, big data analytics, and business intelligence solutions.

Course Content:

🟩 Introduction to Data Science & Big Data, Python, Statistic, Math
✅ Data Preprocessing & Feature Engineering
✅ Machine Learning for Data Science
✅ Data Visualization & Business Intelligence (BI)
✅ Hands-on Project: Sales Forecasting Using Data Analytics

Industrial Visits:

🔹 **IT & Software Development Company** – Learn about big data infrastructure
🔹 **E-commerce Industry** – Explore recommendation systems and customer analytics
🔹 **Healthcare Analytics Firm** – Understand AI-driven patient data analysis

Benefits:

✓ Practical exposure to data science tools (Python, R, TensorFlow)
✓ Certification in Data Science
✓ Industry-relevant projects
✓ Career opportunities in analytics, AI, and big data

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6. Internship Program on Cybersecurity

Objective:

This program trains students in ethical hacking, cybersecurity frameworks, and industrial security best practices.

Course Content:

🟩 Introduction to Cybersecurity & Ethical Hacking
✅ Industrial Control System (ICS) Security
🟩 Web Security & Penetration Testing
✅ IoT Security
🟩 Incident Response & Threat Intelligence
✅ Hands-on Project: Securing an Industrial Network

Industrial Visits:

🔹 **Cybersecurity Firm** – Explore ethical hacking and penetration testing
🔹 **Smart City Project** – Understand security challenges in smart infrastructure
🔹 **Government Cybersecurity Center** – Learn about national cybersecurity initiatives

Benefits:

✓ Hands-on experience in ethical hacking and cybersecurity frameworks
✓ Industry exposure in securing industrial systems
✓ Certification in cybersecurity
✓ Career opportunities in cybersecurity, ethical hacking, and ICS security

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Industrial Visits & Exposure:

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7. Internship Program on TinyML (Tiny Machine Learning)

Objective:

This program focuses on TinyML, enabling students to develop AI-driven applications on low-power embedded devices.

Course Content:

✅ Introduction to TinyML & Edge AI
✅ Hardware for TinyML (Raspberry Pi Pico, ESP32, Arduino)
✅ Data Collection & Preprocessing for ML Models
✅ TensorFlow Lite for Microcontrollers
✅ Industry Applications of TinyML
🟩 Hands-on Project: Real-Time Air Quality Monitoring Using TinyML

Industrial Visits:

🔹 **AIoT Startup Hub** – Learn about AI on embedded systems
🔹 **Smart Agriculture Facility** – Explore TinyML in precision farming
🔹 **Healthcare Wearable Device Industry** – Understand low-power AI applications in health monitoring

Benefits:

✓ Hands-on TinyML project development
✓ Exposure to AI on embedded platforms
✓ Certification in TinyML
✓ Career opportunities in AIoT, Edge AI, and embedded ML

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Industrial Visits & Exposure:

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Benefits of the Entrepreneurship Program:
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8. Internship Program on IoT (Internet of Things)

Objective:

This program is designed to provide hands-on experience in **IoT system development**, enabling participants to build **smart, connected devices** for real-world applications. The course covers **hardware, communication protocols, cloud integration, and AI-powered IoT** solutions.

Course Content:

🟩 **Introduction to IoT & Industry Applications**
✅ **IoT Hardware & Sensors**
✅ **IoT Communication Protocols**
✅ **Cloud & IoT Data Analytics**
✅ **Edge AI & Smart IoT Applications**
Hands-On IoT Projects
✅ **Smart Home Automation** using IoT
✅ **IoT-based Health Monitoring System**
✅ **AI-enabled Predictive Maintenance for Industrial Machines**

Benefits of the IoT Internship Program:

✓ **Hands-on IoT project development**
✓ **Exposure to industry-standard IoT hardware & cloud platforms**
✓ **Certification in IoT Development**
✓ **Opportunities in AIoT, Industrial IoT, and Smart Automation**

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Industrial Visits & Exposure:
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🔹 Manufacturing & R&D Facilities – Understand industrial prototyping & scaling

Benefits of the Entrepreneurship Program:

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✓ Direct interaction with investors & incubators

9.Full-Stack Web Development with PHP & MySQL

Duration: 3 Months

Final Week: Project Deployment & Real-World Application

Tech Stack: PHP, MySQL, HTML, CSS, JavaScript (jQuery/AJAX), Bootstrap, Git, Hosting

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Month 1: Core PHP & MySQL (Backend Basics)

Week 1-2: PHP Fundamentals

- ✅ Setting up XAMPP/LAMP stack
- ✅ PHP Syntax, Variables, Data Types
- ✅ Conditional Statements & Loops
- ✅ Forms Handling (GET & POST)
- ✅ Session & Cookies

Week 3-4: MySQL Database & CRUD

- ✅ Database Design & Normalization
- ✅ MySQL Queries (INSERT, SELECT, UPDATE, DELETE)
- ✅ Connecting PHP with MySQL
- ✅ CRUD Operations with PHP & MySQL
- ✅ User Authentication (Login/Signup with Password Hashing)

Month 2: Full-Stack Development (Dynamic Web Apps)

Week 5-6: Frontend Integration

- ✅ HTML & CSS Basics (Bootstrap for UI)
- ✅ JavaScript & jQuery for Interactivity
- ✅ AJAX for Asynchronous Requests
- ✅ File Uploading & Handling in PHP

Week 7-8: Mini Project - Blog Website

- ✅ Admin Panel (CRUD for Posts & Users)
- ✅ Comment System
- ✅ Image Upload & File Management
- ✅ Search & Pagination

Month 3: Advanced Topics & Real-World Projects

Week 9-12: Final Project & Deployment

- ✅ **Project: E-Commerce / Online Learning Platform**
- ✅ User Roles (Admin, Users)
- ✅ Payment Gateway Integration (Razorpay/PayPal)
- ✅ Deployment on cPanel / VPS Server
- ✅ Using GitHub for Version Control

Industrial Automation

2 Month 3 Month 6 Month

PLC, HMI, SCADA, VFD, DCS

Embedded System

2 Month 3 Month 6 Month

4 controllers, Protocols, Hands-on

Robotics

2 Month 3 Month 6 Month

3 controllers, ROS2, Mapping, etc

Internet of Things

2 Month 3 Month 6 Month

4 controllers, MQTT, AWS, etc.

Cybersecurity

2 Month 3 Month 6 Month

Network, Kali, Cyber attacks, etc.

Personality Development

Data Science

2 Month 3 Month 6 Month

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