

IoT Automation Certification Program

Become an IoT Solution Engineer through our comprehensive 270-hour program. Gain expertise in designing and implementing connected systems across multiple industries.



Software Foundation: C Programming

1 Core Curriculum

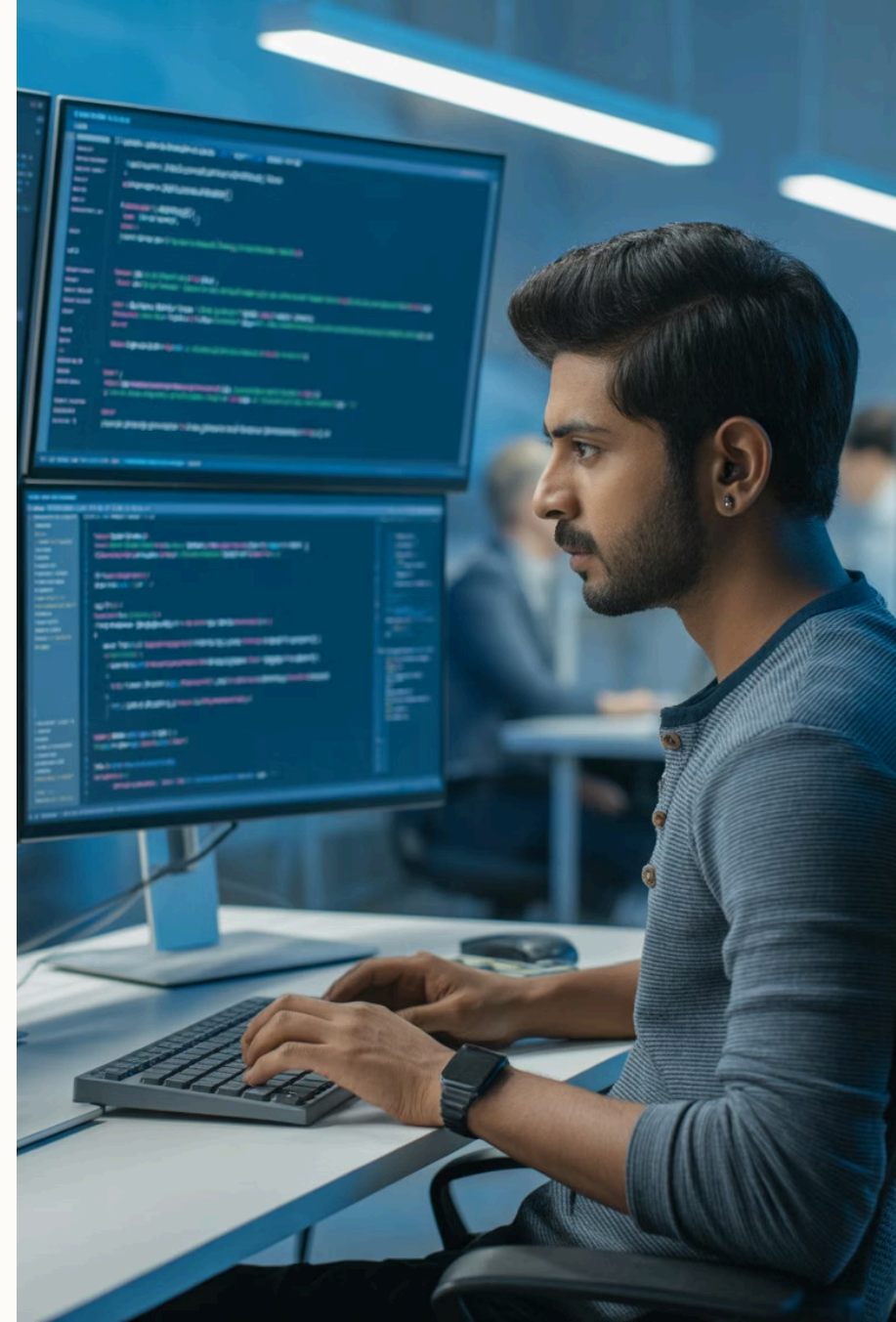
Learn programming fundamentals, memory management, and data structures through hands-on projects.

3 IBM Certification

Earn an industry-recognized credential with lifetime validity.

2 Career Paths

Prepare for roles in embedded systems, firmware development, and systems programming.





Python Programming Essentials

1

Fundamentals

Master Python syntax, control structures, and data types.

2

Advanced Concepts

Develop skills in OOP, libraries, and APIs.



Automation

Create scripts for process automation and efficiency.

4

Final Project

Apply knowledge to solve real-world problems.

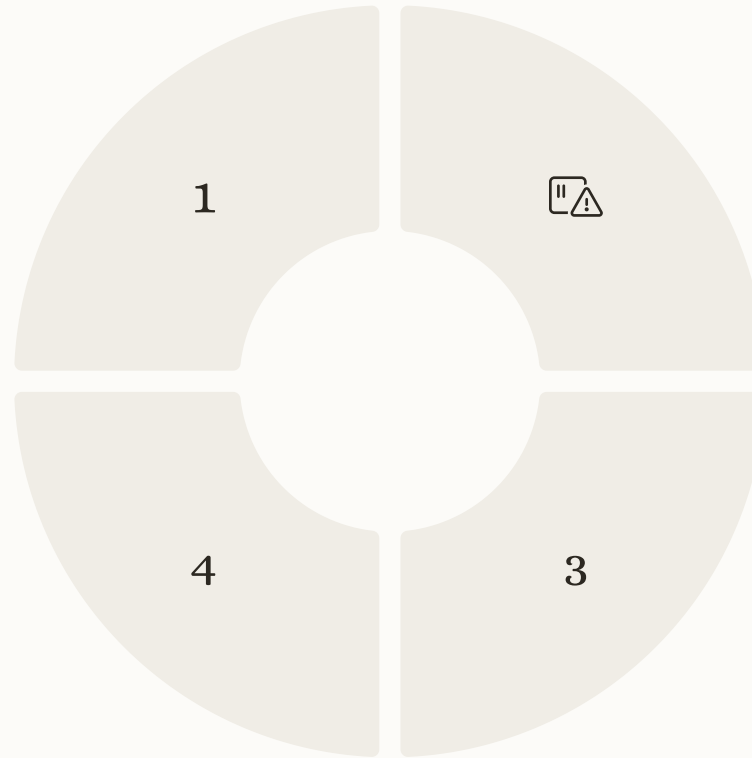
Fundamentals of IoT

Architecture
Understand IoT components and system design.

Cloud
Integrate IoT systems with cloud services.

Hardware
Work with sensors, actuators, and platforms.

Networking
Learn protocols and communication methods.



IoT using Python

Curriculum Highlights

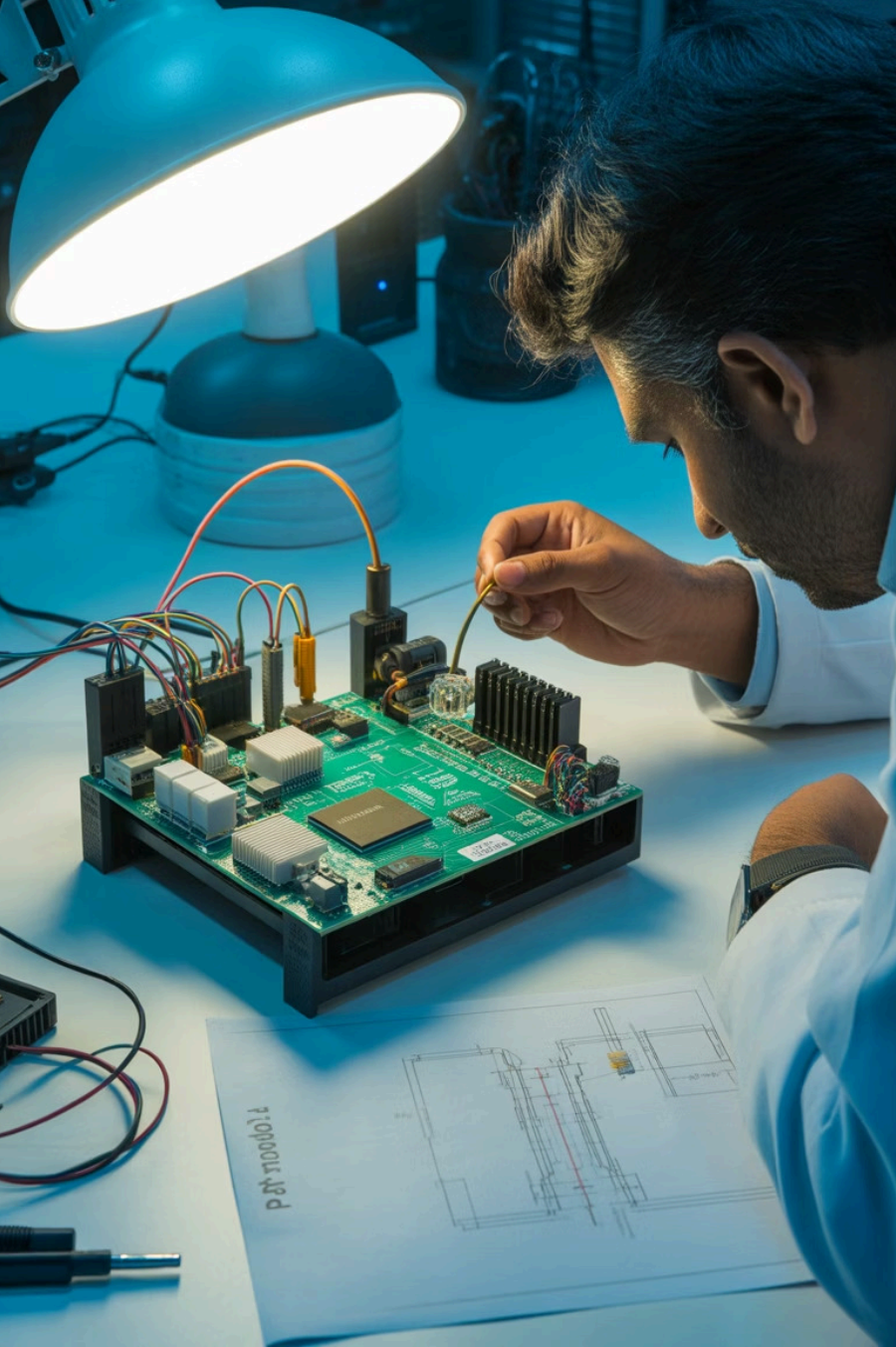
- Python fundamentals
- OOP concepts
- Libraries and APIs
- Automation scripting

Career Opportunities

- IoT Developer
- Embedded Engineer
- IoT Architect
- Data Analyst

Industry Applications

- Smart Manufacturing
- Healthcare
- Agriculture
- Smart Cities



TI Automation - Level 1

Foundation

Learn automation basics and TI LaunchPad fundamentals.

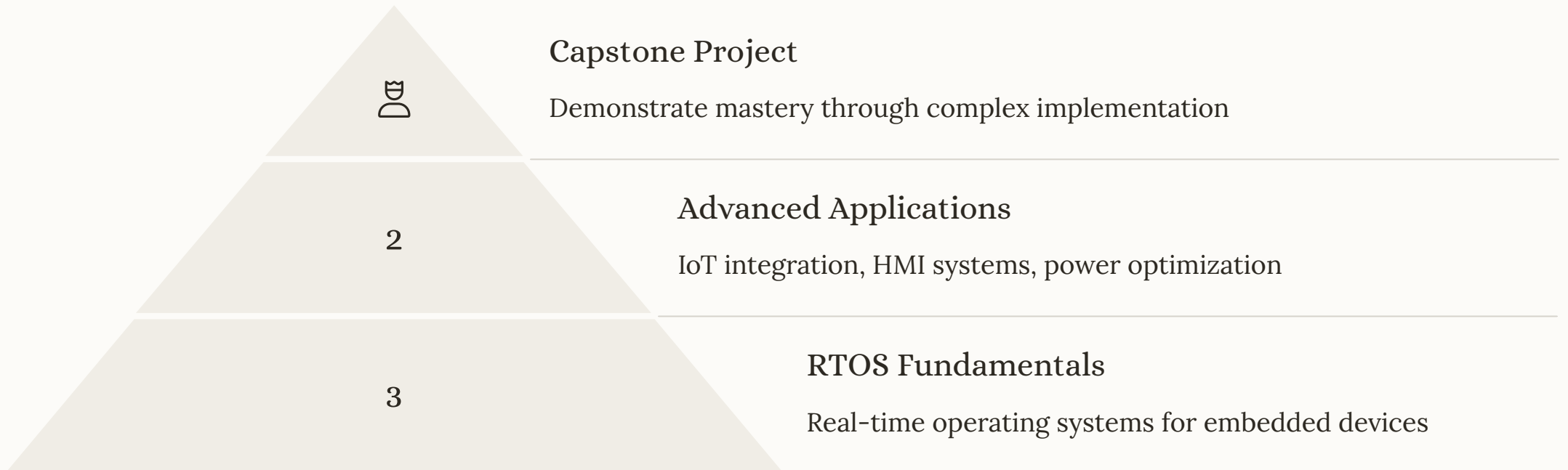
Core Skills

Master digital I/O, sensors, actuators, and communication protocols.

Application

Complete mini-projects and a comprehensive capstone project.

TI Automation - Level 2



Exit Profile: IoT Solution Engineer

Core Competencies

Design and implement IoT solutions integrating hardware, software, and networking components.

Technical Skills

System architecture, device communication, data flow management, and solution optimization.

Business Focus

Translate business requirements into functional IoT ecosystems that deliver measurable value.





Industry Applications



Smart Homes

Connected living spaces with automated systems and remote control.



Industry 4.0

Smart manufacturing with connected machines and predictive maintenance.



Healthcare

Remote patient monitoring and smart medical devices.



Agriculture

Precision farming with sensor networks and automated systems.

Program Overview

270

Total Hours

Comprehensive training across all
modules

6

Certifications

Industry-recognized credentials

100%

Hands-on

Practical projects in every module

