

# Mission and Impact

## Our Purpose: Empowering Youth through Automation

Unlock the potential of automation with

### **Accessible**

**Automation Inc**, a 501(C)(3) non-profit public benefit organization. We are committed to using technology for the greater good, empowering individuals and communities to prosper. Our

### **Discovering**

**Automation** youth program prepares young leaders for success in a world driven by automation.

## Bridging the Digital Divide

Our mission goes beyond technical skills —we aim to bridge the digital divide and create equitable opportunities for young people from all backgrounds. By providing comprehensive training in cutting-edge automation technologies, we enable youth to not just adapt to technological change, but to become innovators and leaders who can shape the future.

## Democratizing Technological Opportunity

We believe that automation should democratize opportunity, not restrict it. Through mentorship, hands-on learning, and a forward-thinking curriculum, we empower the next generation to transform challenges into opportunities, ensuring they are not just prepared for the future, but are active architects of technological progress.



# Our Answer:

Confronting the critical challenges of skills obsolescence and professional vulnerability, our **Discovering Automation** youth program emerges as a strategic intervention—providing young learners with a comprehensive, forward-looking pathway to technological competency. By delivering cutting-edge training that is dynamically aligned with industry innovations, we directly counteract the risks of educational irrelevance and limited career prospects, transforming potential technological barriers into platforms for personal and professional empowerment.

## Strategic Skill Mapping

Systematically developing industry-aligned technical competencies that create clear career progression pathways across emerging technology sectors, from robotics to advanced manufacturing.

## Industry Networking and Exposure

Creating direct connections with industry professionals through mentorship programs, guest lectures, and collaborative workshops that provide insider perspectives and expand students' professional networks.

## Leadership Development

Fostering critical thinking, collaborative problem-solving, and adaptive learning strategies that transform technical knowledge into strategic workforce capabilities.

By bridging theoretical knowledge with hands-on experience, our program doesn't just train students—it empowers a new generation of technological leaders who will drive innovation, create opportunities, and reshape the future.

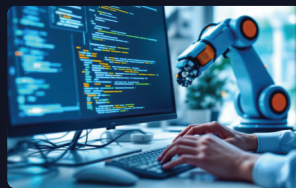
# Program Curriculum

Our intensive 12-week program—conducted twice weekly—is meticulously designed to transform passionate learners into skilled technological innovators. Over the course of 24 dynamic sessions, participants will dive deep into cutting-edge robotics and automation technologies, gaining hands-on experience that bridges theoretical knowledge with real-world application. Each module is crafted to progressively build technical competency, ensuring students emerge not just trained, but truly empowered to shape the future of industrial technology.



## Module 1: Introduction to Industrial Robotics

- Explore diverse industrial robot types (articulated arms, SCARA, delta).
- Examine applications across industries
- Analyze societal impact: efficiency gains, productivity boosts, and workforce implications.
- Address workforce adaptation and reskilling needs.



## Module 2: Robot Programming Fundamentals

- Learn basic programming concepts.
- Deep dive into robot motion control.
- Manage input/output (I/O) effectively.
- Gain hands-on coding experience with robots and automation systems.



## Module 3: 3D Printing

- Get exposure to 3D design software platforms.
- Employ 3D printing techniques
- Understand materials science (filaments, resins).
- Apply 3D printing in automation contexts.
- Design and print functional components.



## Module 4: Project Design and Implementation

- Design and execute real-world automation projects.
- Collaborate effectively in team settings.
- Construct functional automation systems.
- Apply acquired knowledge to practical challenges.