Systems / C Programming Project — [Course / Project] [Month Year – Month Year]

- Implemented C utilities and contributed to Linux tooling customization; worked on multithreaded components and profiled memory/CPU usage.
- Wrote unit and integration tests and documented interfaces for reuse.

Leadership & Activities

- **Software Club / Hackathons:** Led teams producing prototypes under tight deadlines.
- **Teaching Assistant (Systems / Programming):** Guided labs on C programming and OS concepts.
- **Open Source:** Contributed fixes and documentation to community projects (links on GitHub).

Certifications & Training

Optional Linux / DevOps workshop or certificate (replace with specifics)

- Introductory IIoT/OT seminar or relevant industry workshop (if attended)

Additional Information

- **Availability:** Available to start full-time on **June 8, 2026**.
- **Relocation:** Willing to relocate for program placements (Mason, OH; Alpharetta, GA; Elk Grove Village, IL; Harleysville, PA). Relocation assistance eligible for moves > 50 miles.
- **Travel:** Comfortable with variable travel (project-dependent).
- **Work Authorization:** Authorized to work in the U.S. without sponsorship.

Instructions: Replace all bracketed placeholders (e.g., [Your Full Name], [University Name], dates) with your real details. Keep bullets concise and quantify impact where possible.

Automation Genesis — Discrete Engineering Track at Siemens

The **"Automation Genesis — Discrete Engineering Track"** is identified as an 18-month immersive talent development program (full-time, paid) by Siemens.

- **6-Month Intensive Onboarding:** initial phase, work on projects to build a strong foundation in the Siemens automation portfolio.
- **12-Month Development Phase:** development phase, rotation through different functional areas, work on real customer projects, and the design of technical solutions under the guidance of senior engineers.

Discrete automation by Siemens Industry, Inc.

Discrete automation in Siemens' Digital Industries Automation division is concerned with the manufacturing of individual, countable items (e.g., automobiles, electronics, or appliances)

- **Field:** Internal Services / Industrial Automation
- **Pay range:** $81,000 – $84,000 annually (actual offer depends on candidate experience, location, and budget).
- **Benefits:** Health and wellness plans; details referenced at the Siemens benefits page: `https://www.benefitsquickstart.com/siemens/index.html`
- **Employment type:** Office / Site only, Full-time, permanent, Entry-level
- **Locations:** Mason, OH (first 6 months); then Alpharetta, GA; Elk Grove Village, IL; and/or Harleysville, PA
- Start on **June 8, 2026**, Mason, OH (first 6 months)

1. 6-month intensive onboarding: instructor-led training + hands-on projects.
2. 12-month development phase: deepen portfolio expertise, customer engagement, and practical engineering experience.
3. Transition to a designated full-time role, typically as an Engineer on the Technical Consultant team.
4. **Support**: Relocation assistance provided for moves > 50 miles.
5. **Travel**: project-dependent; typically 5–10% in light periods, up to 50% in busier periods.

Career Path

Participants are typically placed into full-time positions such as:

- Applications Engineer
- Automation Consultant
- Controls Engineer

Core responsibilities

- Strengthen customer relationships and contribute to Siemens' growth and reputation.
- U.S. work authorization with no sponsorship
- willing to commit to required moves.
- Strong programming foundation (IEC 61131-3 Ladder Logic, C#, Python, C/C++, Java, mobile/web, PLCs/HMIs).
- (Preferred) Leadership experience (academic or extracurricular).
- (Preferred) Strong communication skills and customer focus.
- (Preferred) Ethernet networking, statics/dynamics, Windows app development
- **Industrial Networking:** The methods for connecting automation devices (like PLCs, VFDs, and robots) to ensure reliable communication.
- **Cybersecurity:** The protection of industrial control systems from cyber threats.
- **Functional areas**: software/hardware architecture design, testing, project management, electromechanical Systems
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- (Preferred/not qualified) Internship or project experience in industrial/manufacturing environments.
- (Preferred/not qualified) Basic understanding of control theory and/or PLCs.
- **Control Theory:** The study of how to manipulate the parameters affecting the behavior of a dynamic system.
- (Preferred/not qualified) power electronics, motion control, CNC, robotics.
- **Programmable Logic Controllers (PLCs):** The central control units for automation, used to manage machinery and processes.
- **Variable Frequency Drives (VFDs):** Devices used for controlling the speed of electric motors, which are critical for machine control and energy efficiency.
- **Computer Numerical Control (CNC):** Automation systems specifically for machine tools, such as mills, lathes, and routers.
- **Digital IIoT Technology:** The application of the Industrial Internet of Things (IIoT) to gather and analyze data from the factory floor.
- Design and implement technical solutions using factory automation, motion control, process automation, and simulation tools.
- Consult with customers to drive digital transformation via IIoT, additive manufacturing, digital drive trains, and robotics.

In these roles, individuals are responsible for consulting with Siemens' customers, designing custom software and hardware solutions, and assisting companies with the implementation of smart factory and digital transformation initiatives using Siemens technology.