

N M SONOTH AMIN

sonothamin.dev | github.com/sonothamin | linkedin.com/in/sonothamin | Jamalpur Sadar, Jamalpur, BD.

PROFILE

Computer Science and Engineering undergraduate with a keen interest in embedded electronics, Linux systems, and network administration. Have experience in robotics, deploying and maintaining homelab infrastructures. Passionate about repurposing legacy hardware. Curious and avid learner.

EDUCATION

Islamic University of Technology (IUT)

2024 – Present

B.Sc. in Computer Science & Engineering

1st Year, 1st Semester (current)

Dhaka Residential Model College

2022-2024

Higher Secondary Certificate

TECHNICAL SKILLS

- **Linux & Systems Administration:** System administration, shell scripting, containerization.
- **Networking:** Home-lab network design, Infrastructure, Proxies, Dynamic DNS, VPN/tunnel configuration.
- **Embedded Systems & Digital Electronics:**
 - **MCUs:** ESP-based boards (ESP8266/ESP32), Arduino, Raspberry Pi Pico; circuit prototyping, firmware modification and flashing.
 - **SBCs:** Raspberry Pi, Orange Pi, Generic Allwinner Boards, etc.
- **Languages:** Bash, C, Python, HTML, CSS, JS.

PROJECTS & INITIATIVES

Self-Hosted Infrastructure Operations

Personal Home Lab

- Configured and maintain a self hosted server running services as Nextcloud, Jellyfin, and qBittorrent Web.
- Secured external access via Cloudflare Tunnel, handling dynamic DNS without exposed ports.

E-Waste Upcycling & Hardware Repurposing

Personal Initiative

- Diagnose and troubleshoot discarded hardware, flash alternative open-source firmware, and rebuild end-of-life components into functioning thin clients, network appliances, and storage nodes.

Open-Source Tooling

github.com/sonothamin

- **Termux-GUI-Wizard** - 64 ☆
Step-by-step installer for desktop environments and window managers on Termux.
- **yt-dlp-playlist-parallelizer**
Bash utility for concurrent multi-video playlist downloads.

ACHIEVEMENTS & COMPETITIONS

National STEAM Olympiad - **Winner**, Robotics Project

Bangladesh Robotics Olympiad (BdRO) - **Regional Finalist**

AUST IDC Mindsparks '24 - **Participant**, Robo-Soccer

AREAS OF INTEREST

System architecture & design · Embedded systems · Digital electronics ·
Linux & network infrastructure · Tech Restoration and Repurposing