

Abdinasir Abdi

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EDUCATION

KTH Royal Institute of Technology

Stockholm, Sweden

Bachelor of Science - Electronics and Computer Engineering

Graduation Date: Jun 2027

PROJECT EXPERIENCE

ChipKit Uno32 Microcontroller

Embedded Systems Project - Snake Game

- Developed the classic Snake game using **C on a ChipKit Uno32 microcontroller**, managing logic, input, and display rendering.
- Collaborated in a 2-person team to write modular, testable code and complete full system integration on physical hardware.
- Completed project with **100%** functional performance during live demo and received top marks in practical evaluation.

Personal Project

Ultrasonic Distance Indicator System

- Designed and implemented a distance-based feedback system using an **HC-SR04** ultrasonic sensor connected to an Arduino Uno.
- Programmed in **C** using the Arduino IDE to measure pulse duration and calculate real-time object distance using the speed of sound formula.
- Calibrated measurement accuracy through manual distance testing, achieving stable behavior with $\leq \pm 2$ cm variance in real-time conditions.
- Achieved stable performance with **>95%** accuracy in distance-based LED response during multiple test runs.

Personal Project

Traffic Light Control System – STM32 & FreeRTOS

- Developed a real-time traffic light controller on an **STM32 Nucleo-L476RG using FreeRTOS**.
- Implemented a finite state machine handling car sensors and pedestrian buttons with tasks, queues, and semaphores.
- Controlled traffic and pedestrian LEDs via SPI using cascaded 74HC595 shift registers.

WORK EXPERIENCE

IKEA

Stockholm

Customer Experience Associate

Jul 2022 - Present

- Delivered top-tier customer service across store and digital channels, assisting over **50+** customers per shift with product selection, returns, and logistics.
- Processed and tracked **200+** furniture and electronic orders per month, ensuring accurate delivery and high customer satisfaction.
- Logged and resolved **90%+** of customer issues on first contact, including missing deliveries, returns, and damaged goods.

Teleperformance Nordic

Solna

Corporate Booking Advisor (Scandic Hotels)

Jun 2021 - Apr 2022

- Served as first-line support for Scandic Hotels business clients across **30+** companies monthly, assisting with bookings and accommodations.
- Handled group reservations of up to **100+** guests, coordinating across hotel teams to ensure client-specific needs were met.
- Delivered first-line support for business guests, resolving close to **100%** of all inquiries on first contact regarding bookings and meeting spaces.

LEADERSHIP EXPERIENCE

Reagera i Järfälla

Stockholm

Tutor & Youth Mentor

Aug 2021 - Aug 2023

- Provided academic tutoring and mentorship to younger students, helping them improve study habits, school performance, and confidence.
- Supported children with a wide range of needs — from math, science, history, and reading to general academic motivation — in a safe and structured environment.
- Guided students on personal development and long-term educational mindset, building positive relationships over multiple sessions.

Youth Event Organizer (Volunteer)

Aug 2021 - Present

- Helped plan and lead daily educational, athletic, and recreational events for groups of **50–100+** children during community summer programs.
- Organized field trips, coordinated sports and game events, and ensured the safety and enjoyment of all participants.
- Collaborated with local organizations and volunteers to ensure meaningful learning experiences.

SKILLS & INTERESTS

Skills: Basic C/ Embedded C, Basic Java, Linux CLI, Arduino, MATLAB, Digital Electronics, Real-Time Systems, Git & GitHub.

Languages: Swedish (native), English (fluent).