JUNE 2024

Contribution Report

Prepared by:

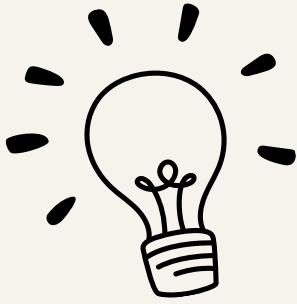## LATIFA NISHAT NISHI
2252421062

Prepared for:

NAZNEEN AKHTER

Project Brief

PROJECT NAME: Light Following Robot

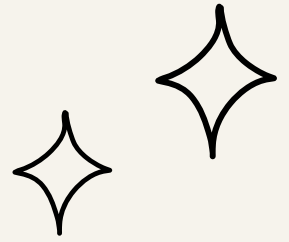**TIMELINE:**   March 4 – June 2, 2024   **BUDGET:** ৳1529

TEAM MEMBERS:

SHAMOYETA MOURIN MOULY	----------	2252421036
LATIFA NISHAT NISHI	----------	2252421062
JAYED BIN ALAMGIR	----------	2252421066
TAHSINA TABASSUM ROZA	----------	2252421084

INTRODUCTION	This project aims to revolutionize automation in Bangladesh's manufacturing, agriculture, and construction sectors by developing a light-following robot. The robot, built with an Easier Pro Development Board, light sensors, TT gear motors, and a car chassis, will navigate towards light sources using sensor signals and programmed controls. This 3-month project with a budget of approximately 1529 Taka has the potential to improve efficiency, safety, and productivity across various sectors in Bangladesh.
GOALS	• ·To develop a method for detecting the presence of light sources in the robot's vicinity • ·To implement control mechanisms allowing the robot to navigate towards detected light sources without human intervention.
FUTURE SCOPE	1. Autonomous Agriculture 2. Search and Rescue Operations 3. Smart Home Assistance

ORIGINAL IDEA
Identified the concept of the light–following robot through research involving web search and video exploration.

PROJECT PROPOSAL
Authored core sections of the proposal (introduction, rational of the study, objectives, work plan, budget report & analysis) and ensured overall proper formatting (punctuation, font size, spacing etc).

WEEKLY SUMMARY & OBJECTIVE COMPLETION REPORT
Diligently contributing to the creation of all three weekly summaries documenting project progress, also successfully completed the objective completion report.

My Contribution

PRESENTATION SLIDE & VIDEO MAKING
Made my part of the presentation slides & 9 presentation videos though none of it was finalized. Jayed made just 1 video and it was finalized :)

FINAL PROJECT PROPOSAL
Composed on refining and finalizing Chapters 1, 3, References, Table of Contents, and overall structure of the final project proposal.

PROJECT ASSEMBLE
Worked alongside the team to assemble and construct the light–following robot.