

FIRE MAPPER

GROUP MEMBERS

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ADVISED BY

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PRESENTATION ON

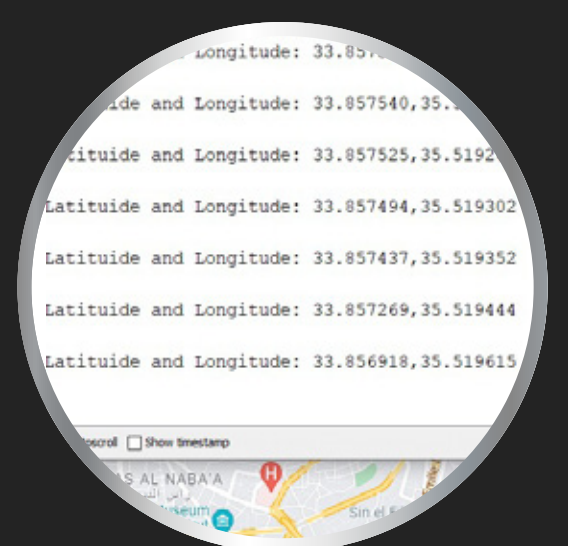
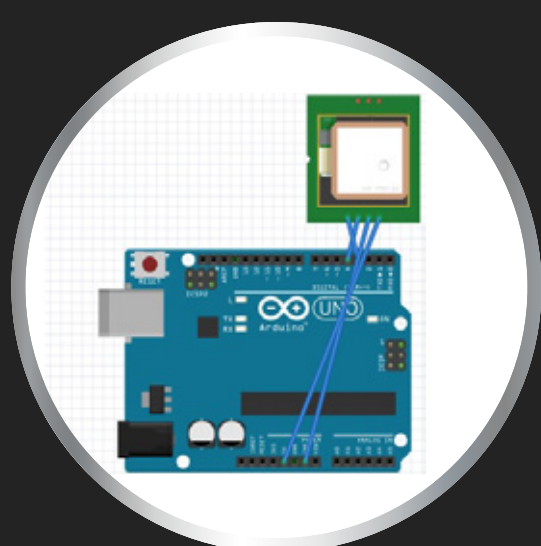
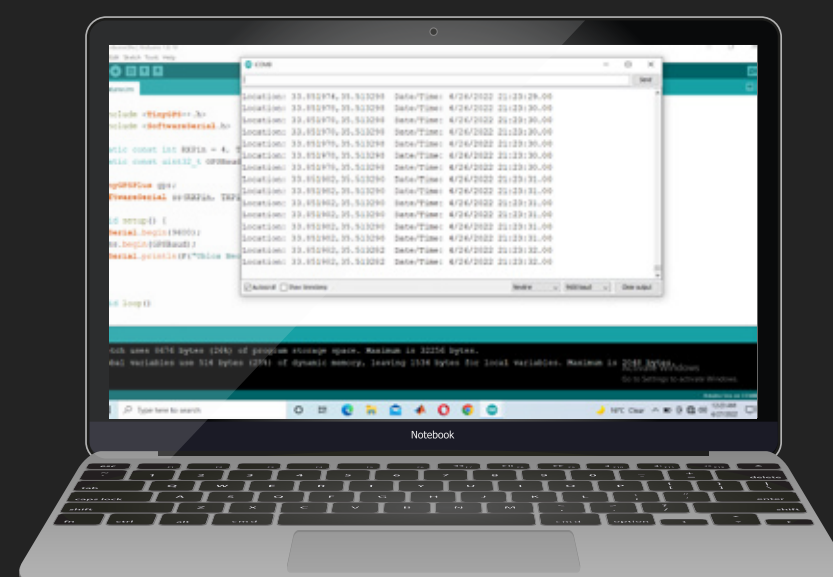
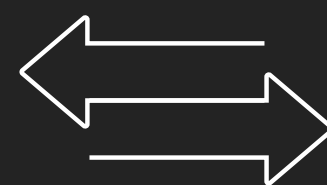
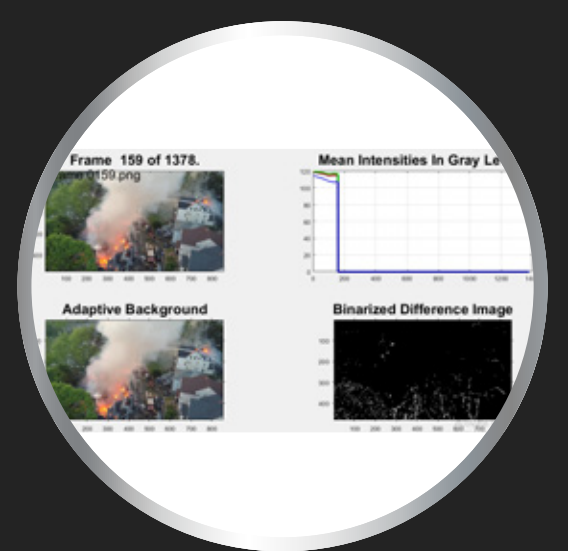
THURSDAY MAY 19, 2022
MS TEAMS LINK, AT 9AM

WHY?

Because of the ongoing threat of fire to both economic properties and public safety, Fire Mapper was created. This system is made to be effective in situations where having an insight of the fire spread area is needed. Having an overview of the geographical spread of fire gives the firefighter a clear idea of what they are facing, and helps them in being one step ahead in controlling the fire.

HOW?

This project aims at building an air-based fire detection system using Insta360 Go 2 camera, Arduino Uno, and a drone. We employed a system engineering approach, combining different software and hardware elements to create a unique automatic fire detection system.



ACKNOWLEDGMENTS

Our deep gratitude goes first to *Dr. Jad Atallah* who has been extremely helpful throughout this project, from providing us with valuable feedback at our weekly meetings to constantly pushing us to complete the project on time.

We'd also like to thank *Dr. Abdallah Kassem* for his contribution to the knowledge we gained throughout our time at NDU, which allowed us to complete this project.

A particular thank you to *Notre Dame University's Faculty of Engineering* for the time and effort it has put into us, as well as its dedication to providing us with all of the resources we need to become the successful engineers we aspire to be.