



BLUE JET

PFE BOOK 2024

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SUMMARY

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WHO WE ARE

BLUE JET ENGINEERING, an innovative Tunisian startup, officially earned its startup label in July 2022, marking a significant milestone in its journey.

Committed to pushing the boundaries of technological innovation, the company has set its sights on revolutionizing the AgriTech world.

Armed with a passion for cutting-edge solutions, BLUE JET ENGINEERING is dedicated to developing advanced machines that leverage the latest technologies to address the evolving needs of the agriculture sector.

OUR MISSION :



We work hard every day
to Build the best products
by applying AI technology
To help humanity thrive all
while using sustainable
energy

OUR SERVICES :



- Smart Irrigation Systems
- Healthcare Support Tools
- Innovative Automation
- Sustainable Energy Integration
- Build smart mechatronic systems

OUR VISION :



Shape the future of Tunisia and Africa
with innovation and intelligence to
create a valuable future through
innovation and technologies.



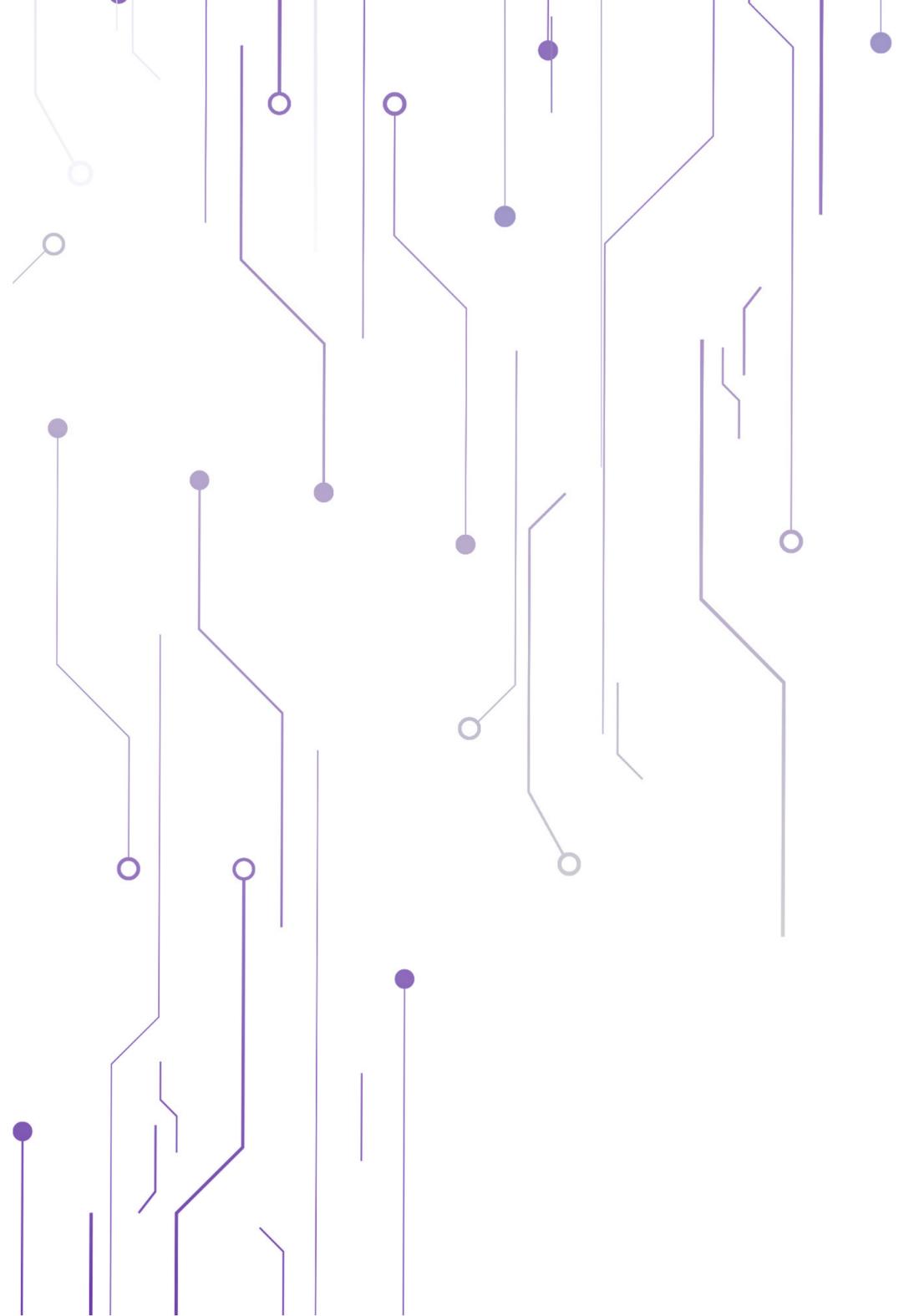
HOW TO APPLY



**Send your resume to
contact-@bluejetengineering.com
Following these steps :**

1. Choose a Project from the project Lists
2. Write your application like this :
 Email Subject: [Project REFERENCE]
3. Attach your resume and cover letter to the email.

PROJECTS LIST



WEB AND MOBILE DEVELOPMENT PROJECTS



REF : DEV1

DEVELOPMENT OF A DASHBOARD “ERWINI MAPS ”

Description : Design and implement an interactive map template allowing to exploit and display real-time data of farms connected to the mobile application “ERWINI” in a detailed dashboard .

Technologies: React.JS , NodeJS ,Express JS, Restful API ,MongoDB, GIT, GithubActions, Jira.



6 months



1 intern



Web development ,
internet of things .



Hybrid

REF : DEV2

REDESIGN AND DEVELOPMENT OF BLUEJET ENGINEERING WEB SITE

Description: Development of the official web site of Bluejet engineering.

Technologies: ReactJS, Nodejs, ExpressJS , MongoDB,Jira.



6 months



Web development



1 intern



Hybrid

REF : DEV3

DEVELOPMENT OF ERWINI WEB SITE

Description: Add features for the web site of ERWINI solution.

Deploy the web site of ERWINI.

ERWINI is a smart irrigation system that allows farmers to control their farms remotely.

Technologies: Angular, Nodejs, ExpressJS , heroku, MongoDB,Jira.CI/CD



6 months



1 intern



Web development ,
internet of things



Hybrid

REF : DEV4

DEVELOPMENT OF A MOBILE APPLICATION ERWINI OFFICE

Description: Developing ERWINI OFFICE a module within the mobile application ERWINI.

Technologies: Flutter , NodeJs ,ExpressJs,Firebase,Mongodb,Jira,CI/CD,GIT



6 months



1 intern



Mobile development



Hybrid

REF : DEV5

DEVELOPMENT OF A MOBILE APPLICATION ERWINI PLANTS

Description: Developing ERWINI PLANTS a module within the mobile application ERWINI.

Technologies: Flutter , NodeJs ,ExpressJs,Firebase,Mongodb,Jira,CI/CD,GIT



6 months



1 intern



Mobile development



Hybrid

REF : DEV6

DESIGN AND DEVELOPMENT OF A DEVOPS ARCHITECTURE

Description: Design and develop a DevOps architecture that will dockerize and will define complete pipelines for code integration, compilation, testing, delivery, and continuous deployment using the latest technologies for ERWINI Mobile application .

Technologies: Docker, Jenkins, GitLabCI, Linux, Shell.



6 months



Devops, mobile development

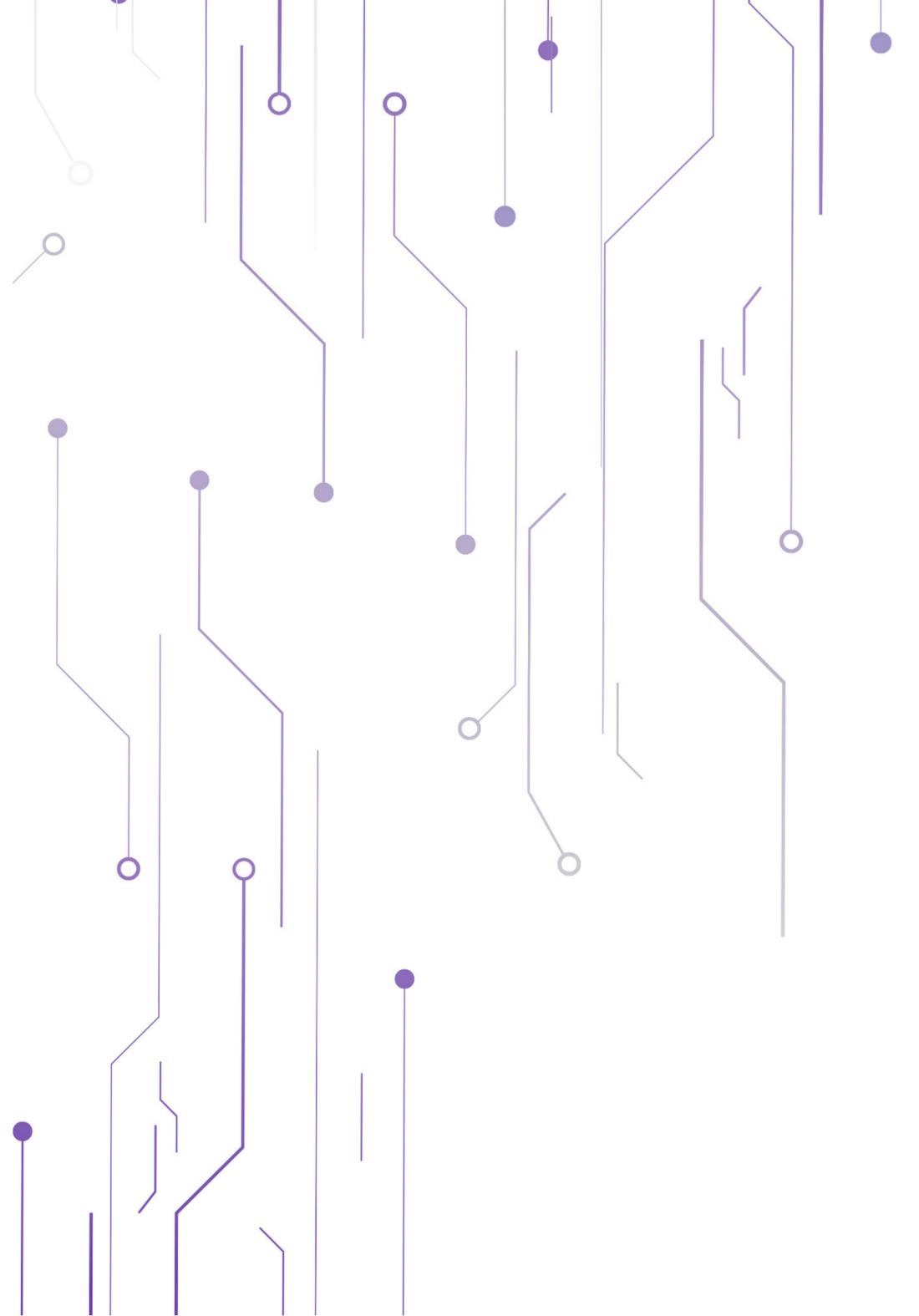


1 intern



Hybrid

PROJECTS LIST



UI/UX PROJECTS



REF : UI1

DESIGNING NEW FEATURES FOR ERWINI MOBILE APPLICATION

Description: Redesign new features and modern UI designs.

Improve the overall user experience based on farmer's needs .

Implement and work at the crossroad of UX design and UI design to support the development of our Apps.

Technologies: Figma, UI/UX design,Jira.



6 months



UI/UX Design



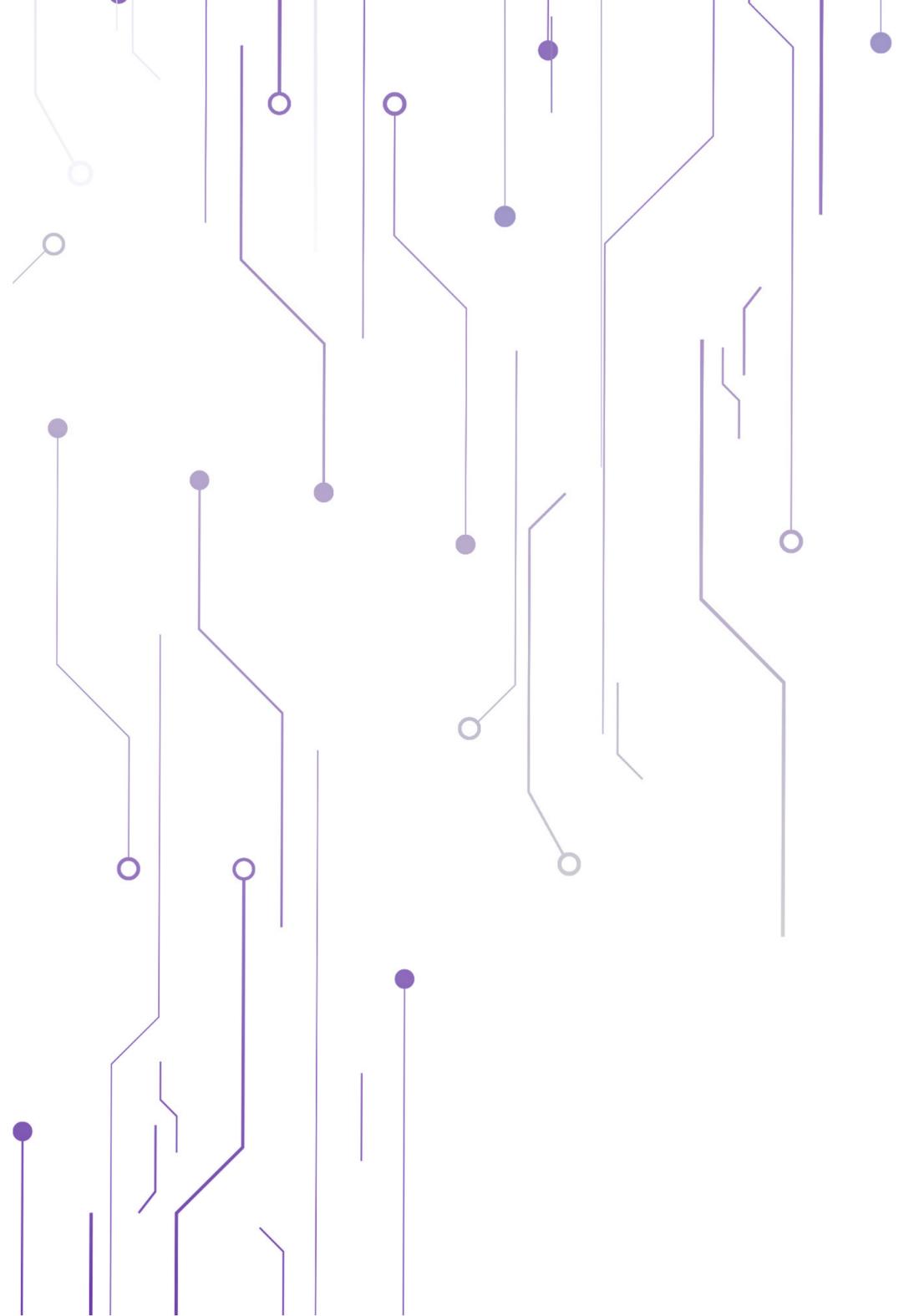
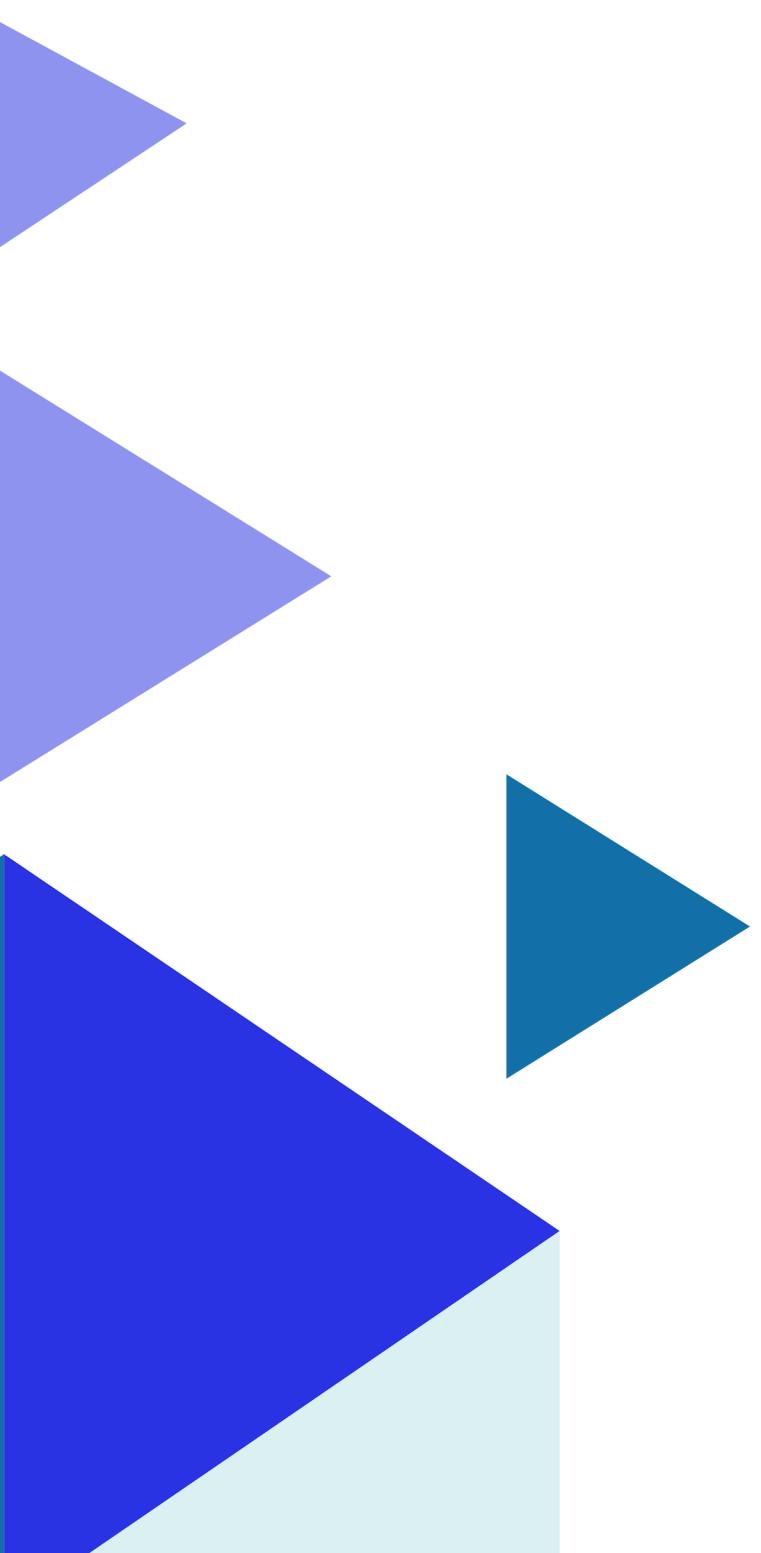
1 intern



Hybrid

PROJECTS LIST

EMBEDDED SYSTEM PROJECTS



REF : IOT1

INTELLIGENT FIRE DETECTION SYSTEM

Description: Development of an advanced fire detection system that utilizes sensor networks. The system aims to provide real-time monitoring. The project encompasses hardware and software components, integrating them seamlessly to create an intelligent and reliable fire detection solution.

Technologies: C



6 months



1 intern



Analog and digital, electronic
Altium Designer, ESP32,
network sensor



Hybrid

REF : IOT2

PREDICTING ELECTRONIC BOARD FAILURES IN IRRIGATION SYSTEM

Description: Create a predictive model for anticipating failures in electronic circuit boards utilized within irrigation systems. The primary objective is to forecast potential malfunctions in the electronic boards responsible for overseeing irrigation systems. This predictive capability facilitates preemptive maintenance, thereby preventing costly disruptions in water supply.

Technologies: Python, machine learning, recurrent neural networks (RNN)



6 months



1 intern



Failure prediction, electronic circuit boards, irrigation systems, predictive maintenance



Hybrid

ABOUT US

**Wanna Know more !
you can find us on :**

 www.bluejetengineering.com



 <https://www.linkedin.com/company/blue-jet-engineering/>



 contact@bluejetengineering.com

