Bekmukhamed Tursunbayev

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PROJECTS

Infomatrix Asia international computer project competition - Gold Medal

2018 - 2019

Phebruus

- Led a team of 3 people to develop a robot to collect garbage from pools using Python code to integrate sensors
- Created algorithm to locate garbage with TensorFlow object detection based on TACO dataset of images of litter
- Utilized OpenCV library to display images and Protobuf package to serialize data
- Implemented online video streaming from camera and manual control of the robot in the real-time
- Calculated and drew an optimal design in CorelDraw to make it buoyant and to increase its maneuverability on water, as well as to isolate the battery and to improve its life

Infomatrix Asia international computer project competition - Silver Medal

2017 - 2018

EcoStage

- Managed a team of 3 people to build a hardware control system to purify and humidify the air, and reveal quality of air
- Built a circuit based on Arduino with LCD display, sensors, fan and ultraviolet lamp, and designed air filter
- Wrote C++ code to read data from sensors to display it and clear and/or humidify the air

SKILLS

PROGRAMMING & TOOLS: Python, C++, OpenCV, CorelDraw

HARDWARE: Arduino, Raspberry Pi LANGUAGES: Kazakh, Russian, English

EXPERIENCE

Calculation Team 2022 - Present

Engineers Without Borders chapter

Chicago, IL

Structural calculating and designing an Urine-Diverting Dry Toilet for a community in Yucka - Bolivia, Sharing features and Meeting with a community on a monthly basis, Presenting project to raise funds (2700\$)

English Language Tutor

2019 - 2019

Forward Education

Delivered English language assistance to 30 fellow students, Prepared them for IELTS and SAT exams, Served as a model for students in techniques and strategies for planning short- and long-term goals

Team Leader

2019 - 2019

World Para-Powerlifting Championship

Nur-Sultan, Kazakhstan

Nur-Sultan, Kazakhstan

Led team of 10 volunteers at award ceremony, was a liaison between volunteering committee and volunteers, distributed roles, kept track of schedules, flags, medals, and prizes

Founder

2018 - 2019

Asar

Nur-Sultan, Kazakhstan

Founded mentoring club for 40 children from an orphanage, Collaborated with orphanage representatives, guided team of 9 students, Organized Mathematics, Physics, C++ and English classes

EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL

Expected May 2024

Bachelor's in Computer Science, GPA: 3.5/4.0, Dean's List

Relevant Courses: Introduction to Machine Learning, Introduction to Algorithms, Discrete Structures, Computer Organization and Assembly Language Programming

Student Government Vice President of Events, Eta Kappa Nu Delta Chapter member, Member of Engineers Without Borders chapter, Member of Chess Club

PENNSYLVANIA STATE UNIVERSITY, STATE COLLEGE, PA

2020 - 2021

Bachelor's in Computer Science, GPA: 4.0/4.0, Dean's List

Relevant Courses: Data Structures and Algorithms, Object-Oriented Programming: Fundamentals & Data Structures

Member of Coding club