

Xilei Zhu

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Education

Georgia Tech

Bachelor's Degree

Atlanta, GA

Industrial and Systems Engineering with Supply Chain Engineering Concentration

Jan/2021 - Present

Virginia Tech Honors College

Transferred Out

Blacksburg, VA

Industrial and Systems Engineering

Aug/2019 - Dec/2020

Internship & Research

Hardware Product Manager Intern

Shanghai, CN

Dali Intelligence, ByteDance

July/2021 - Dec/2021

Led the market research on smart-hardware, wrote research reports and reported to the Product Team

Found the best ISO and shutter speed of the camera for the software team to improve the accuracy of the neural network dimming algorithm

Conducted market research on new form products with the User Research Team, made research reports to company management for decision making

Conducted research and testing on camera-related hardware designs for next year's products

Led the market research on dual-camera use-cases; helped the team on different types of camera selection

Assisted the Operation Team in pre-launch user testing of new products

UG Research: 3D Printing and printed electronics

Atlanta, GA

Georgia Tech Manufacturing Institute, Georgia Tech

Mar/2021 - May/2021

Designed the circuit and used the Aerosol Jet printer to print circuits on the wafer.

UG Research: Augmented Perception to Support Use of Whole-body Exoskeletons

Blacksburg, VA

Virginia Cognitive System Engineering, Virginia Tech

Sept/2020 - Dec/2020

Conducted a user study with VR goggles

Designed the User Interface for VR goggles by using Unity

Helped graduate students to collect data from volunteers

Robotics

'Infantry' Project Operation

Blacksburg, VA

RoboGrinder, Virginia Tech

Sept/2020 - Dec/2020

Coordinated the progress with other projects by weekly meeting with group members

Built the team database for new member training on Google Drive

Wrote user manual for mechanical devices

Responsible for managing and fixing team properties, including mechanical devices

Managed the time schedule for each sub-project to use the warehouse during the COVID-19

Added the "standard deviation" and "T-distribution" to the ballistic test software (Python)

'Infantry' Project Mechanical Group Member

Blacksburg, VA

RoboGrinder, Virginia Tech

Sept/2019 - July/2020

Designed robots' chassis with SolidWorks.

Manufactured robots by using mini-CNC machines.

Helped on Ballistic test and Chassis endurance test.

Hackathon & Projects

PENNAPPS 2020

Online

Corona Helping Hands – A donation website for hospitals struggle with PPE shortages amid new COVID-19 surges.

Sept/2020

Proposed the main idea; Built the front-end webpage by using HTML and CSS language.

MedHacks 2020

Online

Mementos – An iOS app that addresses the intersection of memory loss, and inexperience with technology.

Sept/2020

Proposed the main idea, designed the Team Logo, and editing Demo video.

Tech Together Campaign

Online

TRAC: Tracking Risk and Analytics of Covid-19

July/2020

Made a 3D modeling & investigated feedback from clients.

Made the navigation bar and mobile adaptation of the front-end webpage with HTML.

THE HACK 2020

Online

Curiosity- A platform for smart refrigerators. Contains Android, Monitor and different Sensors.

July/2020

Team Founder & Leader; Proposed the functional design of the refrigerator.

Vandyhacks Summer Edition

Online

LiveLinePlus - A web app that helps people chasing, self-checking and reporting COVID-19 cases.

July/2020

Built the front-end web and database.

HACK SC 2020

Los Angeles, CA

Persist - A smart-home platform based on Google Home.

Feb/2020

Used the Google Dialogflow to create a robot that improves people's mental health.

Awards

Dean's List with Presidents Distinction standing for the Fall Semester, 2020.

Jan/2021

PENNAPPS 2020 Best Use of Google Cloud – COVID – 19 Hackathon Fund

Sept/2020

Skills

SolidWorks, Google Cloud Platform, Python, Java, HTML