Xiaokun GU

Mailing Add.:1239 Unit1, Emerson Street, Evanston, Illinois,60201
Contact: (Tel.) +1 8478341464 | E-mail: gxk20000629@gmail.com

SUMMARY

Seeking for a front-end developer internship starting from summer in 2023.

Master in Electrical Engineering department in Northwestern University)with relatively strong programming and analytical skills. Experience developing mobile application using Java. Experience developing simple website using HTML, CSS3.

EDUCATION

Dalian University of Technology, No.2, LingGong Road, Ganjingzi district, Dalian, China **09/ 2018 – 06/2022**

- Bachelor of Engineering in Electrical Engineering
- GPA: 85.3/100
- 2020 Second Class Learning Excellent Scholarship, Top 15%

Northwestern University - 633 Clark St, Evanston, IL 60208 **09/ 2022 - Current**

- Master of Electrical Engineering
- Cumulative GPA 3.95/4.0

WORK EXPERIENCE

Intern, Dalian Zhihui Jingling Technology ,Co.Ltd, Dalian, China **06/2021-07/2021**

- Designed the interface of a app which is designed to implement the control on/off of smart home with **Java**.
- Implemented the control of the LED lights on STM32 in VSCode.
- Implemented the real-time display of data of temperature and humidity, illumination, smoke and other parameters
- Implemented the switch of manual control equipment, as well as automatic/manual conversion.

SKILLS

- **Programming Languages:** Python , C , MATLAB, Java, HTML, CSS3
- **Tools:** Pyhcarm , MATLAB , IntelliJ IDEA, VSCode.

PROJECT EXPERIENCES

Digital Image Processing and Segmentation, Path Academy

Mentor: Dr. Munib Wober, GEC Academy Instructor, Harvard University

- Converted portrait photo into YCbCr format, run various filters on Y, Cb, and Cr formats respectively, compared the effects, and figured out that the Y channel had the besteffect using the matlab.
- Performed a canny edge detection on specific image and optimized the threshold of the canny edge detection using the matlab.
- Performed the non-maximum suppression and thresholding on the image, optimized the threshold and compared the results using the matlab.

Industrial Control Bus (Communication based on Modbus Protocol)
Mentor: Dr. Fei Xu

- Constructed a Microsoft Foundation Classes (MFC) application program with alarm when the system detects the abnormal condition of the patient, realized the main function of double-layer network communication.
- Applied RTU communication protocol to calculate the CRC check code using the modulo two calculation method, set up the serial port, and sent TCP and RTU packets
- Implemented the function of communicating with the computer through the RTU protocol for the monitoring equipment and sending messages through the TCP/IP protocol from the computer

Personal Website Design(Class project) (https://xiaokungu2000.github.io/)

- Constructed a simple personal website using the HTML and the CSS3.
- Implemented some simple image and text effect such as the mask and the showing/hiding using the some property of CSS such as 'display','opacity','hover' and 'float'.
- Constructed multiple pages and made a navigation bar which is used to jump to different pages on the top of each page.

Shopping Website Design

- Constructed a simple shopping website using the HTML and the CSS3.
- Implemented some simple image and text effect such as the mask, showing/hiding and the color-changing using the some property of CSS such as 'display','opacity' and 'hover'.
- Implemented some simple item list using the tag 'ul' and 'li'.

PUBLICATION

Xiaokun Gu, 2021 Challenge-aware Visual Tracking: Methods and Experimental Comparison, 2021 International Conference on Picture Processing, Robotics and Artificial Intelligence (PPRAI 2021), will be published by IEEE Conference Publishing Services