Xi Lin

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EDUCATIONAL BACKGROUND

Dalian University of Technology (DLUT) Dalian, China
♦ Expected Degree: Bachelor of Engineering Sept. 2021–Jun. 2025
♦ Major: Mechanical Design & Manufacturing and Their Automation (DUT-UCI Joint Program)
♦ Minor: Automation
♦ GPA: 87.0/100; English Ability: IELTS – 7.0

PAPER AND PATENTS

1. **Xi Lin,** Yuge Chen, Donglai Liu**,** Research on Object Detection of Robotic based on Convolutional Neural Network, accepted by the 2023 3rd International Conference on Image Processing and Intelligent Control.
2. **Xi Lin. 2023.** New conveyor based on spiral closed anti-blocking. ZL 2023 2 0867470.2
3. **Xi Lin. 2023.** A type of grinding device. ZL 2023 2 0235703.7

RESEARCH EXPERIENCES

NCSU GEARS- Robotics: Design, Control and Deep Learning Jun. 2023–Aug. 2023
Participant, supervised by Full Prof. Hao Su from NCSU
♦ Received systematic training in fundamentals and principles of quadruped robots and reinforcement learning.
♦ Read over 10 relevant papers to determine a specific area of interest.
♦ Built Isaac Gym reinforcement learning environments and imported the parameter model of the robotic arm to simulate training of robotic arm gripping and stacking cube tasks, adjusted parameters according to requirements, and completed related experiments.
♦ Designed an academic poster.

Research on Object Detection of Robotic based on Convolutional Neural Network Oct. 2022–Present
Research Assistant, supervised by Associate Prof. Xuetao Zhang from DLUT
♦ Read literature related to deep learning and computer vision.
♦ Detected objects in images and videos using the YOLO v5 model.
♦ Completed the paper based on experimental results. Prepared for the academic poster and presentations at a conference.
♦Now learning the knowledge concerning SLAM.

Research on a new type of conveying device based on spiral closed anti-blocking Oct. 2022–May 2023
Research Assistant, supervised by Associate Prof. Xuyang Cao
♦ Finished most patent-related work, including market investigation, designing 3D models of a new conveyor based on spiral closed anti-blocking and a type of grinding device with SolidWorks based on technical loopholes of current products, and writing descriptions accordingly.
♦ Successfully completed two patent applications.

HONORS

National Third Prize in the Digital-Design-Dimensions Show, *3D Show Committee* Dec. 2023
Science and Technology Innovation Scholarship, *Top 1.5%*, *DLUT* Sept 2023
Bronze Prize in the 18th College Student Programming Competition, *Top 50%, DLUT* Nov. 2022

ADDITIONAL INFORMATION

Programming Languages: C++ (Basic), Python (Familiar)
Computer Skills: SolidWords (Familiar), Pytorch(Familiar), MATLAB(Basic), ROS (Basic), LaTex (Familiar)
Hobbies: Guitar, Drum Set, Football, Badminton