

Daman Di-nan YANG

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EDUCATION

B.Eng. in Robotics Engineering, Minor in Law (LL.B.)

Sep 2024 - Jul 2028

South China University of Technology (SCUT, Proj. 985, Top 30 in China)

- GPA: 3.43/4.0 | Sel. Courses: C++ Programming: 4.0/4.0; Python Programming: 4.0/4.0; Intro to Engineering: 4.0/4.0
- IELTS 7.5 (R 9.0, S 7.0); English Medium Instruction (EMI); CET-6 587
- Course Practice: Car-plate Recognition System with YOLO; Vision-based Logistics Grasper Robot Vehicle with ML

Summer School, Embodied Intelligence and Robotics

Aug 2026

Technical University of Munich (TUM)

- Studied EI and robotics in MIRMI and TUM; Took leadership and obtained the highest score in the final presentation (1/30).

PUBLICATIONS & PATENTS

Journal(s):

1. LI Xiangzhi, BAI Feng, WU Zhuoqi, ZHANG Tingyu, WU Jiahong, **YANG Dinan**, LU Shaofeng (2026). Intelligent Perception-based Accompanying Control System for Energy-saving Smart Streetlights. **Under Review at Journal of Highway and Transportation Research and Development (CSCD, PKU Core).**^{proj.2}
2. **Dinan YANG** et al. (2026). Multimodal Intelligent Perception-Based Long-Range Smart Road-Lighting System. **In Preparation targeting SCI Q1.**^{proj.2}

Patent(s):

1. Chinese Invention Patent: [Inventors] LU Shaofeng, **YANG Dinan** et al. [Applicant] SCUT. A LoRa-Based Long-Range Network-Free Topology Bidirectional Communication Method. **Accepted for Filing by CNIPA.**^{proj.2}
2. Chinese Utility Patent: [Inventors] **YANG Dinan**, LU Junjie, XUE Jinghao et al. [Applicant] Turinno Guangzhou Inc. A Magnetically Detachable Interactive Touch Module and Structure for Keyboards. **Accepted for Filing by CNIPA.**^{proj.1}

EXPERIENCE

Founder, CEO, CTO, Product Lead

Aug 2024 - Present

Turinno Limited / Turinno Inc. (at SCUT Incubator, under review at HKSTP) <https://turinno.co/about>

- Took full charge of the corporate business and product. Leading an R&D team of 10 to work on AIoT Smart Hardware.
- Overseeing the R&D Dept. team composed of innovators from SCUT, HKUST(GZ), Lehigh U, SEU etc.
- Investigated market by business activities e.g. Global Sources HK. Currently undergoing the **trial production verification**.
- Preparing to launch on CES 2027 and Kickstarter. **Qualified at Eureka Park Startup Zone in CES 2027 (~1200 per year).**
- Under an **angel round** of financing at a **valuation over HKD 10 Million**. Entered interview of **MiraclePlus** (YC China).

Student Researcher 1st-PIC (Person-In-Charge)

May 2026 - May 2027

National Training Program of Innovation and Entrepreneurship for Undergraduates

Advised by Prof. LU, Shaofeng, South China University of Technology

- Person-In-Charge of the project; taking charge of the R&D on Embedded Systems, Cloud Service etc. (see PROJECTS Part)
- Collaborating with teammates, keeping in touch and giving the pitch with the enterprise-side team.

Team Leader

Jun 2026

China-U.S. Young Maker Competition, Shenzhen Division

- Led the Turinno team to participate and developed products of the proactive ambient AI hardware.
- Presented the Turinno EchoBoard and Turinno Intelligence. **Advanced to semi-final.**

Startup Participant & Team Leader

Apr 2025

The Chinese University of Hong Kong, Shenzhen x PAVD Entrepreneurship Boot Camp

- Studied the themed lectures on pitching, fundraising, partner's relations given by Prof. Chau from EMBA@CUHK.
- Leading the team to reconstruct the pitch deck and give a pitch about the Turinno.

Founding President & Chief Lecturer

Jul 2022 - Sep 2023

Computer & Info Tech Association at Sun Yat-sen Memorial Secondary School

- Completed the establishment and gave lectures to the members.
- Led and participated in activities, finishing a **100K-CNY business** closed loop by developing brick set product.
- Developed several software programs for school and won a national IT competition held by Ministry of Education.

PROJECTS

¹**AIoT Smart Keyboard & Bar Integrated with Proactive Agentic Assistant: CTO & SDE** Jun 2025 - Present

- A startup project which aims at building an AI + IoT hardware eco-system in desk-space.
- Implementing a wireless low-profile mechanical keyboard with top-tier industrial design that works with Thread, a smart interactive bar equipped with a display and mic supporting voiceprint-based proactive recording and smart shortcuts, and a proactive agentic assistant supporting speech analysis & summary and MCP execution such as email, notification etc. in the forms of App, Cloud, and Edge OS. Our manufacturing partner is the same as OpenAI Codex Micro keyboard.
- Technical stack: ESP32, ESP-IDF, Nordic nRF, OpenThread, Bluetooth, TinyML, React Native, Node.js, Agent dev etc.
- Patents: 1 submitted, 1 in preparation; Applying for iF Design Award and Red Dot Design Award.

²**Perception-based Accompanying Smart Lighting System: Researcher** Mar 2025 - Present

- Designed a Long-range Communication Topological Architecture, achieving the safe and efficient communication.
- Implemented the vision-based vehicle detection and environment sensing to adjust the brightness automatically and achieve the accompanying lighting control, supporting remote control and data synchronization.
- I take charge of the embedded, communications and cloud functions. Preparing to deploy on roads and collect more data.
- Technical stack: ESP32, STM32, LoRa, Arduino, FreeRTOS, Java Web, SpringBoot, WebSocket.
- 2 invention patents filed (2nd & 3rd author), 1 paper under review.

³**Robotic Process Automation (RPA) for Community Healthcare Center: Leading SDE** Jan 2026 - May 2026

- Turinno Guangzhou Inc. x Guangzhou Ruiyuan Tech Co., Ltd. at Pazhou Lab (Guangdong Artificial Intelligence and Digital Economy Laboratory) Co-work Project of Medical Big Data. Total data: ~6000 records, with correct rate of over 98%.
- Utilized web backend, RPA tools, and LLM API to implement data cleaning and auto writing to GZ City Health Database.
- Technical stack: Java, SpringBoot, Python, Selenium, DeepSeek API-based data cleaning, MySQL.

⁴**Vision-based Logistics Grasper Robot Vehicle (Engineering Innovation coursework): Leader** Mar 2026 - Jun 2026

- Led the design and selection of the robot. Developed the embedded and electronic control functions.
- Implemented a robot with Mecanum Wheels that can grasp and place target items automatically via vision ML.
- Final achievement: grasping and placing 6 items within 5 min, with the error of placing less than 4mm.
- Technical stack: Mech. design, ESP32, Linux on RK3588S, Python, YOLO, NN & ML on RK platform.

⁵**One-stop Online Campus Platform (During High School): Leader & SDE** Jul 2022 - Sep 2022

- Won the **1st prize** in the National Student Information Literacy Improvement Activity held by Ministry of Education.
- An online platform for students and staff to post, announce, issue, query anything via Web + Mini-program.
- Implemented forum, student data management, excel parsing, campus advice collection etc. Total data: ~10K records.
- Technical stack: Service (Java, SpringBoot, MySQL); Web (Vue.js); WeChat mini-program (WXML).

SKILLS & INTERESTS

Coding Skills: C/C++, Java, Web, JS/TS, Python, SpringBoot, Vue.js, React Native, most of which are learnt for 8+ years.

Engineering Skills: Web/Software Development, UI/UX, Embedded Systems, 2D Design

AI Skillset: Claude Code, DeepSeek Harness, ChatGPT, Simple Agent Dev

Languages: English (IELTS 7.5, R 9.0, S 7.0; EMI; CET 587), Mandarin Chinese (native), Cantonese

Volunteering: Student Assistant of Harvard-SCUT China Tour in GBA, Media Volunteer of XPeng P7+ Launch Event

Societies: Student Press, Admission Affairs Association, Union of Student Associations, Computer & IT Assoc.

Activities: CUHK-SZ Entrepreneurship Boot Camp, Canton Fair (Exhibitor), Global Sources HK Shows (Audience) etc.

BRIEF INTRODUCTION

I regard myself as an innovator with consistent and multi-faceted background – **solid engineering capabilities and an integrated mindset of product, design, and business.** I've been learning programming since 11, completely driven by my personal interest. My journey of innovation started in my Senior High. **Conducting survey on campus service, developing online platform for school, founding an IT Student Association, winning 1st prize in the MoEDU-held national IT competition, and finishing a business at the final revenue of 100K CNY,** these are the most extraordinary things that I've done during my high school. Right after I finished the College Entrance Examination (Gaokao), I walked onto the pathway of **startup** and is currently studying Robotics and Law(Minor) at South China U of Tech. Here at SCUT, I've been improving my technical and business capabilities. I've participated in several academic researches and enterprise/course projects. Also, I attended many activities about innovation and startup, such as Canton Fair, XbotPark activities, CUHK-SZ Boot Camp, HKUST(GZ) INNOTECH etc.

I would like to describe myself using 3 key words – **Startup, Engineering and Exploration**, and my growth of my first 18 years are naturally guiding me to become an innovative person. Looking forward to meeting with you in future journey!