

Candice Chen



Female | 26 years old | Native place: Taiwan ☎ 15880501735 ✉ 404879018@qq.com
6 year work experience | AI Product Manager

Education

Tamkang University Master 计算机科学与技术 2022-2024

Research Focus: Deep Vision-based 3D Motion Assessment System
Published research: "3D Motion Assessment System Based on Depth Imaging"

National Taiwan University of Science and Technology Bachelor
Information Management
2018-2022

Professional Summary

- Technical Program Manager with 6 years of experience delivering AI-powered industrial systems and robotic solutions from concept to deployment. Experienced in coordinating cross-functional teams across AI, software, hardware, automation, and manufacturing domains to drive complex technical programs.
- Strong technical background in computer vision, deep learning, edge AI, and intelligent manufacturing systems, with hands-on experience in robotic manipulators, AGV/AIGV platforms, industrial vision systems, MES integration, and hardware-software co-development.
- Skilled at translating research and engineering capabilities into scalable products through technical planning, validation frameworks, risk management, and cross-team execution.

Employment History

IndustrialNext (Yingdashi Intelligent Technology Co., Ltd.)
AI Product Manager / Technical Program Lead 2026.06-Now

- Lead technical program execution for Industrial AI Manufacturing Platform initiatives, coordinating AI, software, automation, and mechanical engineering teams to transform AI capabilities into deployable manufacturing solutions.
- Drive AI Setup Platform development for electronic manufacturing equipment, defining automation workflows covering vision setup, robot teaching, calibration, and recipe generation to reduce manual engineering effort during equipment deployment.
- Translate customer manufacturing requirements into technical roadmaps, system architectures, validation criteria, and implementation plans across computer vision, robotics, and automation domains.
- Coordinate engineering discussions with internal teams, customers, and overseas stakeholders to align technical requirements, delivery milestones, integration risks, and product direction.
- Support robotics program initiatives including AIGV solutions, integrating AGV platforms, robotic manipulators, computer vision systems, and MES workflows for intelligent manufacturing scenarios.
- Develop product frameworks for Industrial AI platforms, including AI runtime, industrial data infrastructure, and AI application layers.

Content:

2024.07-2026.06

- Led end-to-end development of AI industrial solutions, managing product strategy, technical architecture, engineering coordination, customer validation, and deployment execution.
- Designed an AI-powered industrial SOP platform integrating human recognition, computer vision, action verification, anomaly detection, and manufacturing data traceability.
- Coordinated AI algorithm, software engineering, edge computing, and industrial equipment teams to deploy AI systems in real production environments.
- Defined system interfaces, communication protocols, validation plans, deployment checklists, and operational workflows to improve reliability of AI-enabled manufacturing solutions.
- Managed integration across edge AI devices, cloud services, MES/ERP systems, and industrial equipment communication interfaces.
- Established productization frameworks including MVP definition, acceptance metrics, deployment processes, and scalable delivery methodologies.

Achievement:**Project: Bio-Tissue Traceability System | Project Lead**

- Designed an RFID-based traceability solution for biomedical tissue culture, addressing container tracking, batch traceability, labeling errors, inventory efficiency, and data continuity issues. Built an integrated system covering RFID identification, inbound/outbound tracking, verification, and data visualization.
- Conducted field validation under complex conditions including glass containers, liquid interference, tag occlusion, and multi-tag reading conflicts. Established test matrices for antenna layout, RF parameters, reading distance, trolley speed, and exception handling, optimizing the system with a multi-antenna gateway architecture.
- Delivered a deployable solution package including system design, equipment selection, validation plan, risk analysis, quotation, and implementation roadmap. Validated high-density scenarios with 100+ containers per trolley and 200 containers per batch.

Project: Automotive Parts Outbound Verification System (AI Vision PDA) | Project Lead

- Led the design of an AI vision-based PDA inspection system, transforming manual verification into an automated workflow: image capture → AI matching → exception review → backend confirmation.
- Designed recognition pipelines for similar parts, limited samples, unstable lighting, occlusion, and new SKU onboarding. Developed a few-shot registration mechanism requiring only 2-5 images per new part without full model retraining.
- Combined segmentation, feature matching, and structural verification to achieve <2.5s response time. Defined PDA-backend architecture including offline caching, synchronization, APIs, workflow states, and error handling, achieving 95%+ field usability.

Taiwan Lightmatrix 3D Technology Co., Ltd.

Full-Stack Engineer / Technical Delivery Engineer

Content:

2020.09-2023.12

- Developed real-time 3D vision and video processing systems for large-scale events and commercial applications.
- Built multi-camera 4K video processing pipelines using Python, OpenCV, OpenGL, C++, and CUDA optimization.
- Supported hardware-software integration including camera systems, edge computing devices, network transmission, and real-time rendering pipelines.
- Collaborated with telecom operators and hardware teams to deliver large-scale deployments under complex networking and multi-device environments.

Achievement:

- 1. Optimized real-time rendering and processing pipelines, enabling16-camera 4K video stitching with end-to-end latency below 200ms.
- 2. Improved 3D scanning performance by optimizing reconstruction algorithmsand system workflows.

Internship

Taiwan United Information Co., Ltd. System Analyst Intern 2023.12-2024.06

Certification

PMP项目管理认证

Hobbies

- Experience collaborating with cross-functional teams across China andinternational stakeholders.
- Strong interest in robotics, embodied AI, industrial intelligence, andAI system commercialization.
- Familiar with AI product lifecycle from research validation toreal-world deployment.

Skills

Technical Program Management: Cross-functionalProgram Execution | Engineering Coordination & TechnicalReviews | Program Planning, Milestone Tracking &Risk Management | Validation Planning & Acceptance CriteriaDefinition | Hardware / Software Integration | Partner & Customer Technical Alignment

Robotics & Industrial AI: Mobile Robots(AGV / AIGV) | Robotic Manipulators | Robot-Vision Integration | Industrial Automation Systems | MES/ ERP Integration | Manufacturing AI Applications

AI & Computer Vision: DeepLearning | Computer Vision | Object Detection | Image Segmentation | PoseEstimation | Model Deployment & Optimization | EdgeAI Systems

Technical Tools: Python | C++ | CUDA | OpenCV | PyTorch | TensorFlow | NVIDIA GPU Computing