**CURRICULUM VITAE**

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| **Position:** | | |
| **Personal information** | Name: Nguyen Tuan Anh | Date of birth: Nov 02, 1981 |
|  | Professional qualifications:   * Phd Communications and Information technology * Master Computer Science | |
| **Current job** | Employer: | |
| **Company: FUYU PRECISION COMPONENT CO., LTD.**  Address: Lot M1 and Lot F, Quang Chau Industrial Park, Van Trung Commune, Viet Yen District, Bac Giang Province, Vietnam | |
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|  | **Position:** AI Leader | Years with present Employer: 3 |

**PROFESSIONAL EXPERIENCE STATEMENT**

| **From** | **To** | **Company/Project/Position/Relevant professional and management experience** |
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| 2/2022 | Date | **Company: FUYU PRECISION COMPONENT CO., LTD.**  - **Position:** AI LEADER, Chief Technical  **- Projects** Build a global WEF smart factory[[1]](#footnote-1):   * Led & code AI projects for a global WEF smart factory, focusing on:   + AI-enabled order forecasting and supply chain planning   + Real-time shop floor compliance management with panoramic AI vision   + Research and development of AI-PINN technology for enhanced quality and efficiency.   + LLM-enabled failure log analysis and anomaly handling * Developed AI programs integrated with factory data and automated machinery, leveraging:   + Data integration from factory systems   + Automation machinery interfaces   + Web development for comprehensive report visualization   - **Projects**: Product appearance inspection, a list of hundreds of projects embedded in a software called IVIS (Intelligent Visual Inspection System), has integrated inspection of up to 50 different types of products in one software. Some examples about:  **IVIS for Visual Inspection:**   * Check the appearance of the final product (Check if each type of product, the packaging is correct, the labeling is not deviated, there are enough labels, ...) * Check the packaging process (Check if the worker's operation is correct or not, put enough components and accessories, ...) * Check bonded with the volume (Check if the weight of each product matches the requirements, the weight of which MAC code, attached to which product, ...) * Check the appearance for accuracy (Check whether the product is affixed with the correct type of label, components and accessories placed in the box are correct for that product, ...) * Check the product function appearance (Check whether the light is working or not, the indicator light is correct with the function test scenario, the indicator light can be controlled, ...) * Monitor and evaluate worker capacity (Supervise working workers, assess the speed of product completion, assess worker qualifications, assess the accuracy of worker manipulations compared to SOP, ...) * Security monitoring of prohibited areas (Monitoring prohibited areas by camera and alerting to enforcement devices) * Product quality inspection (Checking for defects in appearance and counting the number of products and components while running on the line) …   **Some KYC related projects:**  - Fingerprint recognition via Camera (Image processing and multiple fingerprint recognition through phone camera images)  - Voice recognition (speech classification, distinguishing between different people through voice)  - Face recognition (regular face or wearing mask, eyeglasses)  **Tools and managements:**  - Material management system (material information management, material ordering management, material supply)  - Support systems to optimize PM's data forecasting process  - Management systems and analysis of product log systems and product errors  - Lean management project to manage production origins  - **Responsibility:**   * Lead team, * System design, * Project documentation, * Task assignment of members, * Main coding person, * Integration of members' small projects to form an AI bonded inspection system.   - **Techstack:** Using Python, Tkinter, Yolo to create bond recognition software, in addition, full-stack code using Flask, … |
| **9/2016** | **12/2019** | **Company: GRG Banking Equipment Co., Ltd. Guangzhou, China**  - **Position:** AI R&D  - **Project:**   * R&D on fingerprint recognition for time attendance system * R&D on Object Detection for ATM anomaly recognition system * R&D on Object Checking for subway automatic entrance and exit tracking system.   - **Responsibility:**   * Programming and data processing skills. * Research and technical problem-solving skills. * Knowledge of Computer Vision and Machine Learning. * Experience in developing object recognition and tracking systems. * Use popular libraries and frameworks like OpenCV, TensorFlow, PyTorch, and Keras. * Ability to work independently and in a team, communication, and presentation skills, …   - **Techstack:**   1. **Programming Languages**: Python, C++ 2. **Libraries and Frameworks**: OpenCV, TensorFlow, PyTorch, Keras 3. **Machine Learning and Computer Vision Algorithms**: CNNs, RNNs, Transfer Learning, Feature Extraction Techniques 4. **Development Tools**: Jupyter Notebooks, Git, Docker 5. **Other Tools and Technologies**: IDEs (PyCharm, VSCode, JupyterLab), Data Processing Libraries (NumPy, pandas, scikit-learn), Image Annotation Tools (LabelImg, VGG Image Annotator, COCO Annotator) |
| **9/2016** | **12/2019** | Company: South China University of Technology, Guangzhou, China  - **Position:** PhD. RESEARCHER  - **Project:**   * PhD student in the field of Speech Recognition * Research other areas: related to Speech, Image, and Deep Learning. * Publish 11 scientific research articles (https://scholar.google.com.vn/citations?user=BWPlNxkAAAAJ)   - **Responsibility:**  + Research new tectnology |
| **7/2005** | **12/2022** | Company: Thai Nguyen University of Technology, Vietnam  - **Position:** University Lecturer  - **Project:** Teaching about Computer Engineering (C/C++, C#, Python, Micro controller – Micro processor, Embedded system, Machine learning – Deeplearning, AI application…)  - **Responsibility:** Teaching subjects related to hardware, software, embedded software, and AI. |

1. Build a global WEF smart factory report: <https://github.com/ntanhfai/reports/blob/main/WEF-report.pdf> [↑](#footnote-ref-1)