



# ZAAABA AHMAD

AI RESEARCHER & TECHNOLOGIST

## CONTACT

- +60 17-2988 287
- [zaaba.ahmad@uitm.edu.my](mailto:zaaba.ahmad@uitm.edu.my)
- Tapah, Perak, Malaysia
- [zaabaahmad2484]

## EDUCATION

**Doctor of Philosophy (PhD)**  
*Comp. Science, UiTM | 2025*

**Master of Science**  
*Comp. Science, USM | 2015*

**Bachelor of Science**  
*Comp. Science, UTM | 2011*

**Diploma**  
*Comp. Engineering, PUO | 2005*

## TECHNICAL PROFICIENCY

### Languages & Frameworks

- Python (PyTorch/TensorFlow)
- C++ Programming
- Hyperledger Fabric (Blockchain)
- YOLO / DeepLabV3+

### Specialized Tech

- LiDAR & Remote Sensing
- UAV/Drone Photogrammetry
- Digital Twin Integration

### Management

- R&D Project Leadership
- Strategic Grant Management

## PROFESSIONAL OVERVIEW

I am an Academician and AI Researcher with a unique background in computer engineering and advanced academic research. My work focuses on building practical AI solutions, ranging from emotion-aware systems to secure, autonomous infrastructure monitoring using LiDAR and Blockchain. With a portfolio of over RM500,000 in research grants, I specialize in turning complex data into real-world applications and am actively seeking collaborations to develop impactful Smart City and Digital Twin technologies.

## WORK EXPERIENCE

### Senior Lecturer / Researcher

Universiti Teknologi MARA (UiTM) | 2016 – Present

Spearheading R&D in AI for Mental Health and Smart Systems while delivering advanced courses in Machine Learning and Computer Vision.

- Secured and managed research grants totaling over RM500,000, including a high-impact national grant for AI-driven infrastructure auditing and Blockchain-based contract automation.
- Technical Consultant for public and private sectors on Digital Twin technologies, Smart City planning, and automated asset validation using LiDAR and Deep Learning.

### Product Design Engineer

Intel Microelectronics (M) Sdn Bhd | 2006 – 2013

Executed product design, validation, and technical problem-solving for Intel development semiconductor products.

- Managed asset lifecycles and complex technical projects, ensuring compliance with rigorous industry standards.
- Provided technical advisory and process optimization for cross-functional engineering teams.
- Specialized in validation test logic and hardware-software integration for new product introduction.