Yohanes Kurnia Widjaja

S.T., M.M.S.I. · Founder & CEO, SARI Teknologi Group

TECHNOLOGY FUTURIST · ROBOTICS INNOVATOR · AI EDUCATOR · ENTREPRENEUR

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Yohanes Kurnia Widjaja is the founder and CEO of PT SARI Teknologi Global and Sekolah Robot Indonesia, and the founder of Robopark Indonesia and the World Robot Games. Since 2000 he has worked where education meets technology: from an English school to robotics classes in hundreds of schools, national robotics curricula, service robots such as ROPI, robots for Indonesian industry and public institutions, and partnerships with universities on AI and robotics.

FOUNDER AND LEADERSHIP

2006 – present — Founder & CEO (President Director)
PT SARI Teknologi Global (SARI Teknologi Group)
Leads the robotics company founded in 2006: research, robotics education, AI and robot manufacturing. His CV dates his time as CEO from 2007.

2007 – present — Founder & CEO
Sekolah Robot Indonesia (SARI)
Founded SARI in 2007 as an inclusive place to learn robotics, and designed its classes, teacher training, competitions and STEAM curriculum.

2015 – present — Founder
Robopark Indonesia
Founded Robopark in 2015 as a travelling robot park; opened a 1,400 m² Industry 4.0 park at Baywalk Mall in 2019; Robopark now runs at Pluit Village Mall.

2015 – present — Founder
World Robot Games (WRG)
Founded the international robot competition in 2015 and the WRG association behind it, with members from more than ten countries.

2000 — Founder & Director
Yoyo British English Education
Founded and directed an English-language school from 2000: the first classroom of his career, where a friend's request led to his first robot course.

2018 — CEO
PT Inti Inovasi Teknologi

2017 — Founder
Battle Robot Indonesia

2013 — Curriculum author & Marketing Director
3D printers from Israel ("Object")

2013 – 2015 — Curriculum author & Director of Education
Sekolah Bisnis Bong Chandra

2002 — Founder & Director, first franchise abroad
Yoyo British English Education

EDUCATION

Master of Information Systems Management
M.M.S.I. · Universitas Gunadarma

Electrical Engineering
S.T. (Bachelor of Engineering) · Universitas Kristen Krida Wacana (UKRIDA), Jakarta

in progress — Doctoral programme in Information Technology
Doctoral candidate · Universitas Gunadarma

CURRICULA HE WROTE

2018 — National robotics and automation curriculum, levels 3 and 4
With the Ministry of Education and Culture (Kemdikbud)

2024 – 2025 — Robotics and AI curricula
STIP Jakarta, POLRI and the Naval Academy (AAL)

2014 – 2015 — Robotics curriculum and robot procurement, primary to senior high school
Education offices of Bogor and East Kalimantan (2014) and DKI Jakarta (2015)

TEACHING

Teacher and education speaker
Kemdikbud and schools across Indonesia

by 2019 — Lecturer (Dosen)
Universitas Gunadarma

ASSOCIATIONS AND PUBLIC ROLES

2019 — Founder; author of its curriculum
Lembaga Sertifikasi dan Kompetensi Robotika dan Otomasi Indonesia

Head of Robotics
APTIKNAS, the national ICT business association

Founder & Secretary-General
Asosiasi Robotika dan Otomasi Indonesia

Founder
Asosiasi Pilot Drone Indonesia

Director of Technology Infrastructure & Data
IAIS

Deputy, Expert Council
Gerakan Restorasi Pengusaha (NasDem)

INNOVATIONS & PORTFOLIO

2015 – present — ROPI, Robot Pintar Indonesia

2025 — ROPI 5.0: robots for the Indonesian National Police

2008 – present — Robotic School Cup & AI Robotic Cup

2022 – 2023 — AI Robotic Trainer Suitcase and AI Portable Lab

2020 – 2022 — Medical devices and health robots

2020 — RoboVent, a ventilator for COVID-19

2016 – 2021 — Robots for Indonesian industry

2015 — Robopark animatronics and the 13-D simulator

PATENTS (CLAIMED)

2024 — Robot that detects dangerous gas in ship hulls

2023 — Chess-playing robot

2023 — ROPI Security, an autonomous patrol robot

2022 — AI Robotic Trainer Suitcase and AI Portable Lab

2021 — Face shield that filters the air

2021 — Oxygen generators, 20 to 60 litres a minute

2021 — robovio UV disinfection robot

2021 — STARK telepresence robot

2021 — Valves for non-invasive breathing aids

2020 — Robohelm and Roboflow

2020 — RoboVent, a ventilator for COVID-19

2018 — Automated guided vehicle for heavy goods

2018 — Bomb-disposal robot

2018 — Robot arm with a 3 kg payload

2016 — Restaurant robot

2015 — Robot education simulator with 13 dimensional effects

Patents marked "claimed" are listed in his CV; their filing numbers are being confirmed.

EXPERTISE

Robotics education and STEAM curriculum
Classes from early childhood, teacher training and competitions.

National curricula and certification
Robotics curricula for regional education offices and Kemdikbud; a certification body for robotics workers.

Service and humanoid robots
ROPI, from retail service robot to the humanoid he demonstrated at TEDx.

Robots for industry and public service
AGVs, robot arms and forklift robots for manufacturers; robots and curricula for the police and the navy.

Medical devices and health robots
RoboVent, oxygen generators, UV disinfection and telepresence robots, with patents claimed.

Robot assembly, integration and distribution
Local assembly for domestic-content rules; Siasun Robotics' sole agent for Indonesia and Australia.

AI for robots and customer analytics
Face, demographic and emotion analysis in public-facing robots.

Industry–university collaboration
Partnerships with Universitas Gunadarma, Cyber University and BINUS University.

CREDENTIALS

S.T., M.M.S.I.
Bachelor of Engineering (UKRIDA, 2006); Master of Information Systems Management (Universitas Gunadarma, 2020).

Doctoral candidate
Doctoral programme in information technology, Universitas Gunadarma (in progress).

PUBLICATIONS

Mira Della Masali, Maya Malinda, Yohanes Kurnia, Indrajani Sutedja (2025). **Robot Pintar Indonesia (ROPI) for AI-Driven Autonomous Personalized Robot: Systematic Literature Review**. *Proceedings of the International Symposium on Management (INSYMA 2025), Vol. 22*, 494–499.

TALKS

Jul 2026 — **The AI Generation**
TEDxTMS Meruya Youth 2026

Jul 2026 — **AI service robots, humanoids and Robot-as-a-Service**
BINUS University industry collaboration meeting (Visiting Professor Programme)