EV Technology Officer (Certified EVTO™)

Thinks like a **CTO**

Designs like a **Chief Architect**

Decides like a **Business Magnate**

EV Society™, Bengaluru, India

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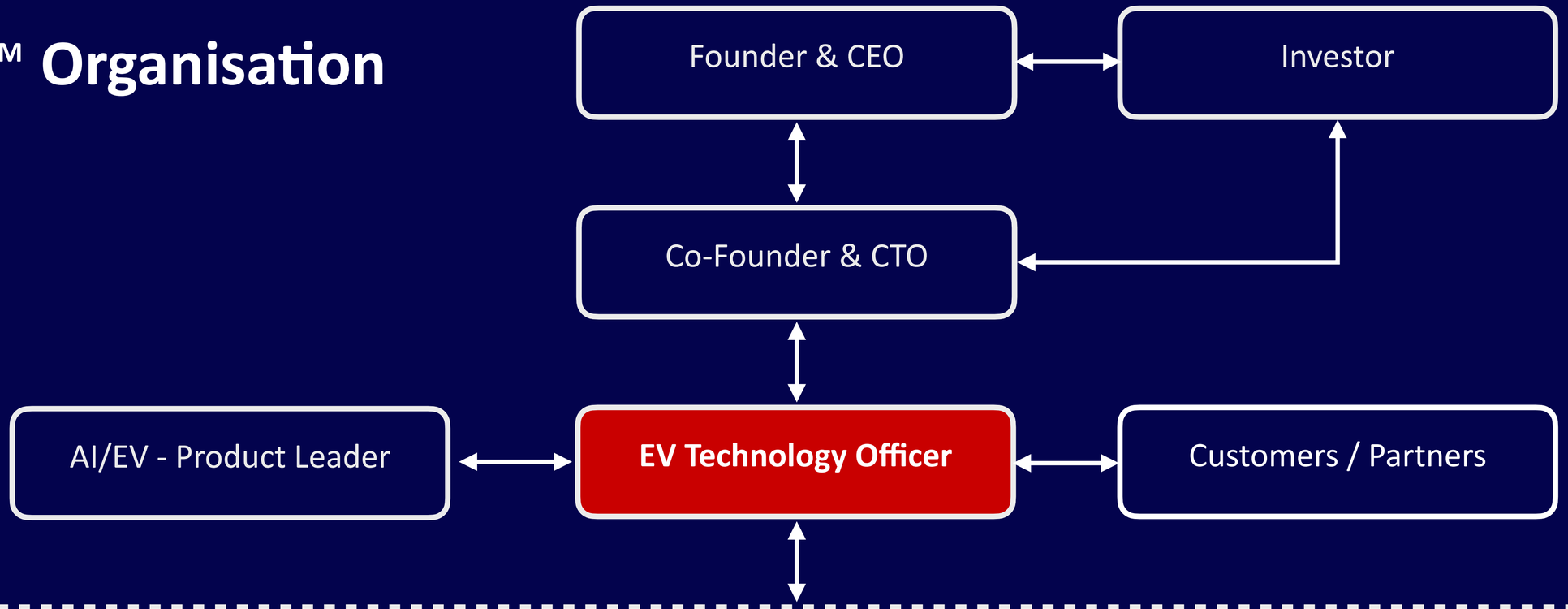
Role Definition

An **EV Technology Officer** (EVTO™) is responsible for end-to-end EV technology leadership — across multi-modal electric transportation systems including Drone, AirTaxi, Battery & Vehicle platforms — spanning AI-driven intelligence, product architecture, business decisions, and team leadership.

EVTO™ Organisation



EVTO™ = EV Technology Decision Owner | 5 Pillars

1 EV Technology

2 AI & Digital Intelligence

3 [Domain Specific]

4 CTO Grade System

5 Business Magnate

0 Architectural Design & Green Leadership

EVTO™ - Roles & Responsibilities

- **Build and lead AI-first product and engineering organisations**,
  establishing agentic workflows and decision-driven systems from the ground up.
- **Define end-to-end platform architecture**
  spanning Drone, AirTaxi, Robots, Battery, EV infrastructure, and integrated eMobility ecosystems.
- **Design and execute AI-first decision systems**
  tightly integrated with real-world eMobility operations, safety workflows, and energy intelligence.
- **Translate business vision into a scalable, production-grade product roadmap**,
  aligning technology strategy with long-term growth and sustainability.
- **Act as the technical and product leadership interface**,
  working closely with executive leadership, customers, regulators, partners, and investors.

EVTO™ : PILLAR 1 – EV SYSTEM OWNERSHIP

“ **Can I own EV technology decisions end-to-end ?** ”

Practical Goals

By the end of this pillar, the participant can:

- Evaluate EV architectures across 2W, 3W, 4W, Bus, Truck, Drone, Air Taxi, Marine, Rail, and Off-Highway EVs
- Identify safety, cost, and scalability risks
- Question vendor claims with confidence
- Approve or reject EV system designs

Hands-On Artifacts

- EV system comparison matrix
- EV architecture review document
- Safety risk register

⏱ **Review Duration** : 8–10 hours

EVTO™ : PILLAR 2 – AI & DIGITAL INTELLIGENCE

“ Where should AI make decisions—and where should it not? ”

Practical Goals

By the end of this pillar, the participant can:

- Decide where AI adds real EV value
- Design AI-first decision workflows
- Evaluate GenAI & agentic systems
- Govern AI risk and explainability

Hands-On Artifacts

- AI vs Rule-based decision map
- AI system architecture for EV ops
- RAG + Agent flow design (no coding)

⏱ **Review Duration** : 12-14 hours

EVTO™ : PILLAR 3 – BATTERY, ENERGY & SAFETY LEADERSHIP

“ **Can I prevent failures before they happen?** ”

Practical Goals

By the end of this pillar, the participant can:

- Understand battery failure modes
- Make go/no-go decisions on battery design
- Define battery safety KPIs
- Lead post-incident technical reviews

Hands-On Artifacts

- Battery safety decision checklist
- Thermal runaway prevention framework
- Battery Aadhaar lifecycle map

⏱ **Review Duration** : 10–12 hours

EVTO™ : PILLAR 4 – CTO GRADE SYSTEM ARCHITECTURE

“ **Can I design and defend scalable EV platforms?** ”

Practical Goals

By the end of this pillar, the participant can:

- Design edge–cloud–AI architectures
- Decide build vs buy vs partner
- Own OTA, cybersecurity, compliance trade-offs
- Defend architecture in leadership reviews

Hands-On Artifacts

- End-to-end EV platform architecture
- Architecture decision record (ADR)
- Risk & compliance mapping

⏱ **Review Duration** : 10-12 hours

EVTO™ : PILLAR 5 – BUSINESS MAGNATE THINKING

“ **Can I think beyond the company?** ”

Practical Goals

By the end of this pillar, the participant can:

- Align tech strategy with business outcomes
- Understand EV unit economics and capital allocation trade-offs
- Make long-term platform bets
- Influence ecosystem & policy decisions

Hands-On Artifacts

- EV business model canvas
- Platform dominance strategy
- 10-year technology roadmap

⏱ **Review Duration** : 8-10 hours

EVTO™ : CAPSTONE (MANDATORY – CERTIFICATION GATE)

Goal -> **Prove end-to-end EV Technology Leadership**

Choose ONE

- Battery Aadhaar Platform
- AI-driven EV Battery Safety System
- Fleet-scale EV Intelligence Platform
- Multi-modal EV Platform (Road + Air + Marine)
- EV Predictive Maintenance
- EV Energy & Charging Intelligence Platform | EV Safety & Compliance Decision Platform

Capstone Deliverables

- Platform architecture diagrams
- AI integration plan
- Risk & safety strategy
- Business & scaling roadmap

⏱ **Review Duration** : 15-20 hours

EVTO™ : CERTIFICATION CRITERIA

To earn Certified EVTO™, participant must :

- Register for the program and successfully clear the pre-course interview
- Complete all five (5) core pillars of the EVTO™ program
- Submit all required hands-on artifacts associated with each pillar, meeting defined quality and outcome standards.
- Pass the EVTO™ Decision Review, validating the participant’s ability to take end-to-end EV technology and architecture decisions.
- Defend the capstone project before an expert review panel, demonstrating technical depth, architectural clarity, AI integration, risk awareness, and business alignment.

Program Tracks & Duration

TRACK	DURATION	USECASES
Executive	6 Months	CXOs, Founders, Co-Founders
Professional	9 Months	Architects, Managers
Fellowship	12 months	Researchers and Academics

Thank you

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