

# EV Technology Officer (Certified EVTO™)

Thinks like a CTO

Designs like a Chief Architect

Decides like a Business Magnate

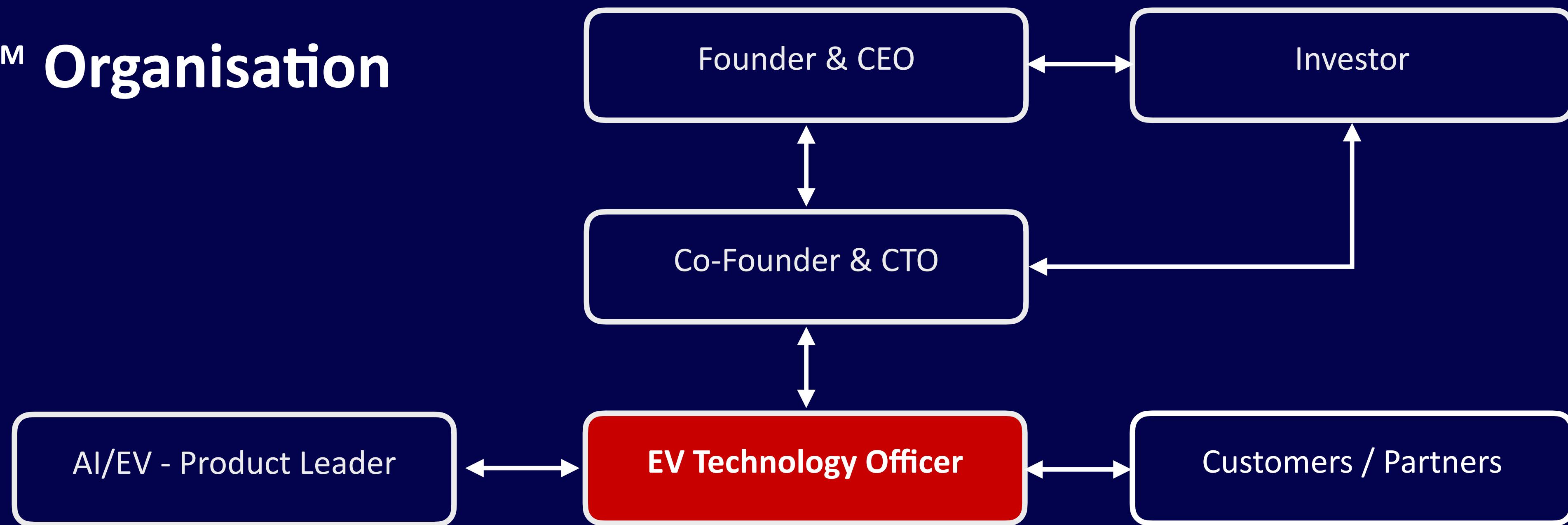
EV Society™, Bengaluru, India

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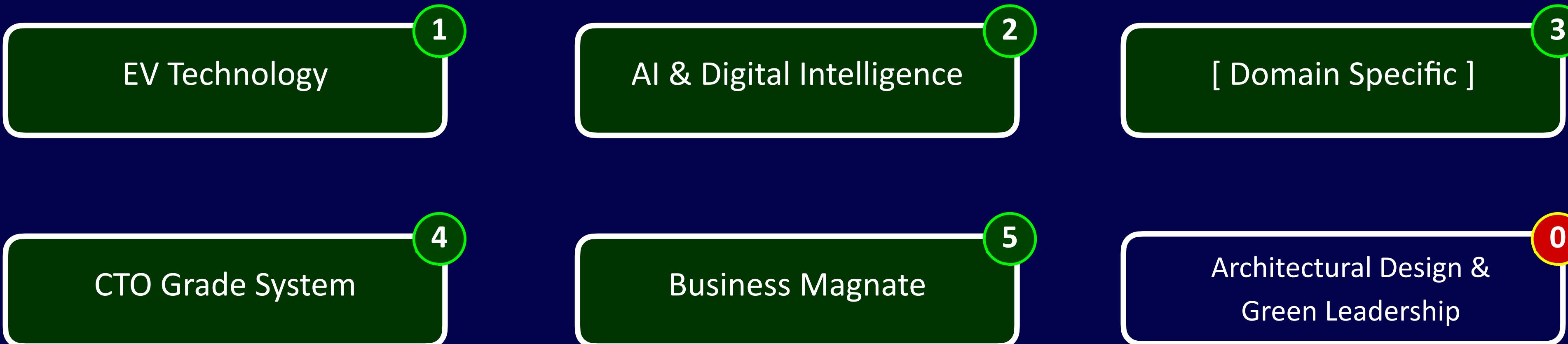
# Role Definition

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



# 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

⌚ 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)

⌚ 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

⌚ 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

⌚ 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

⌚ 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

# 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	40 - 80 hours	CXOs, Founders, Co-Founders
Professional	80 - 160 hours	CTOs, Architects
Fellowship	6 - 12 months	Future EV leaders

# Thank you

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