

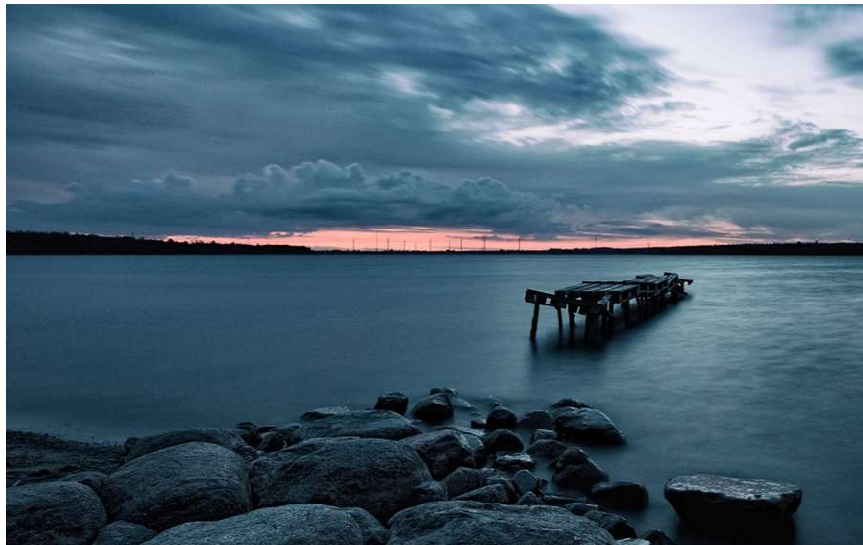
**AEPax**  
Engineering

# **Company** **Profile**





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## Founders Foreword

Every great shift begins with someone willing to imagine beyond the obvious.

Aepax was born from that belief. That Africa can lead, innovate, and set new standards.

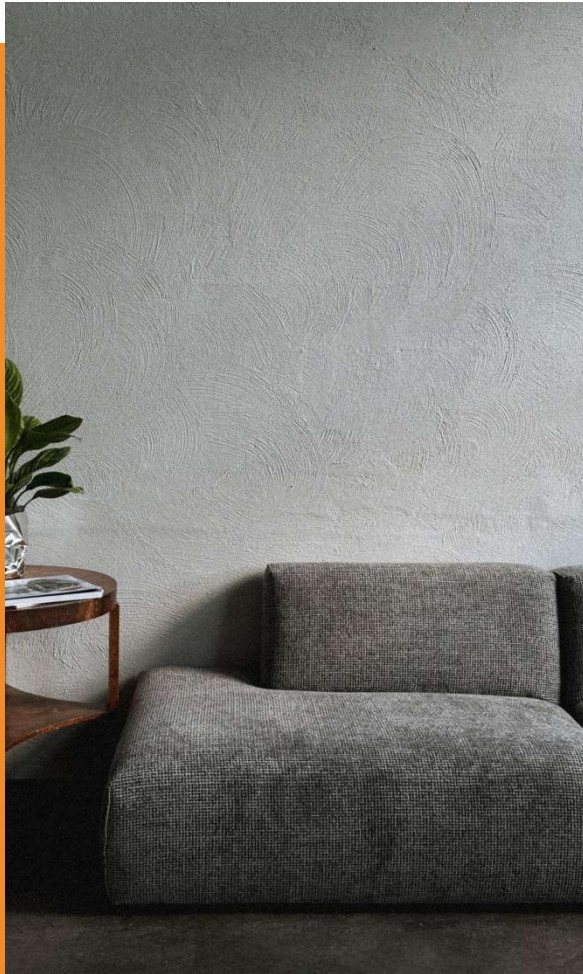
We believe in Africa's potential because we have seen it in our people, their ideas, and their courage. We build for generations. Every structure, system, and solution we deliver declares: *Africa is not behind. Africa is becoming.*

Aepax stands for courage, audacity, and excellence. We rethink the ordinary, push boundaries, and prove that Africa's future will be engineered by those who dare.

*This is our purpose. This is our promise.*

*~ The Founders*





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## About Our Company

Aepax Engineering Limited is a bold, forward-thinking engineering and consultancy company redefining how infrastructure, energy, and technology shape Africa's future. We are more than builders: we are innovators, problem-solvers, and strategic thinkers. From sustainable construction and advanced electrical systems to research-driven engineering solutions, Aepax operates where innovation meets sustainability and purpose.

Founded on the belief that Africa's infrastructure can be both world-class and sustainable, Aepax unites exceptional talent with cutting-edge methods to deliver projects that don't just stand tall, they stand for something greater.

## Our Identity

The name **Aepax** draws inspiration from the word "Apex" and just as apex predators excel through intelligence, adaptability, and precision, Aepax Engineering Limited was created to lead, not follow, in innovation and sustainable development.

We believe leadership in engineering isn't defined by size or history, but by **courage**: the courage to think differently, innovate relentlessly, and build with purpose. Aepax stands at the top of that pursuit. A symbol of mastery, resilience, and a new era of African excellence.



# Vision & Mission

## Vision

To become Africa's most trusted and visionary engineering powerhouse; leading in eco engineering, applied research, and transformative infrastructure solutions that redefine progress, empower communities, and safeguard natural resources for generations to come.

## Mission

To deliver engineering excellence through innovation, integrity, and impact by challenging the ordinary. Through breakthrough engineering with environmental stewardship, we aim to deliver projects that are as kind to the planet as they are smart and cost-effective.





# Our Solutions



## 1. AEPAX STRUCTURES

### Intelligent Built Environments

We design modern & resilient infrastructure powered by engineering excellence, BIM Integration, and sustainable materials research.

#### Core Services

- Architectural & structural CAD drawings
- BIM integration
- BOQs & cost estimate preparation.
- Drainage & sanitation engineering design.
- Geotechnical engineering & investigation.
- Tender documents and procurement support.

*Building with intelligence. Designing for*

## 2. AEPAX POWER

### Renewable & Intelligent Energy Systems

We develop and deliver next-generation power systems blending renewables, automation, and digital control. From solar microgrids to hybrid networks, Aepax Power is shaping Africa's sustainable energy transition.

#### Core Services

- Solar prefeasibility & feasibility studies.
- Electrical installation & Technical drawings.
- Grid Impact studies & SLDs
- Arc flash analysis
- Power systems & load flow analysis
- Energy audits
- Solar power financial modelling

*Engineering tomorrow's energy today.*



# Our Solutions



## 3. AEPAX WORKS

### Construction & Technical Delivery

Execution defines us. Aepax Works ensures that every plan becomes a reality through safety, efficiency, and sustainability.

We uphold Aepax's promise of quality through disciplined project delivery and modern tools.

#### Core Services

- Construction of buildings & structures.
- Electrical Installations & commissioning.
- Land & prefeasibility site surveying.
- Maintenance & lifecycle support.
- Project management & delivery.

*Built right. Delivered with precision.*



## 4. AEPAX ICT & AI

### ICT & AI Services

Our digital solutions connect people, projects, and processes; making engineering smarter, faster, and more reliable.

#### Core Services

- Website design & domain registration.
- IT infrastructure & network setup.
- Digital support & monitoring systems.

*Digital systems that power real-world progress.*



## Our Solutions



### 5. AEPAX R&D

#### Research, Innovation & Sustainability

Aepax R&D transforms ideas into breakthroughs. We lead applied engineering research focused on sustainable materials, advanced modelling, and next-generation infrastructure.

##### Core Services

- Applied R&D, renewable energy pilots & smart system integration.
- Sustainable material design & circular economy solutions.
- Simulation, AI-assisted modelling & digital twins.

*Where science becomes possibility.*



### 6. AEPAX SUSTAIN

#### Environmental, Land & Human Impact Systems

Aepax Sustain integrates environmental stewardship and community well-being into every project. We ensure that development uplifts ecosystems, safeguards people, and strengthens climate resilience.

##### Core Services

- Environmental Impact Assessments (EIA, ESIA & EPB audits)
- Land surveying, Climate resilience planning & Sustainability reporting.
- Social & cultural impact studies.
- Waste management solutions.

*Engineering that uplifts life.*



## Our Solutions



### 7. AEPAX MANUFACTURING

#### Industrial Fabrication & Innovation

By turning concepts into world-class products, we aim to produce local engineering solutions that reduce dependence on imports and strengthen African industries.

#### Core Services

- Excavator bucket, pantograph & hydraulic cylinder repair, including line boring.
- AI-assisted structural & mechanical component fabrication.
- Production of pumps, valves, motors, batteries, nails & plastic components.

*Manufacturing Africa's next industrial*

### 8. AEPAX CONSULTANCY

#### Professional Training & Technical Services

Aepax Consultancy bridges the gap between knowledge and execution, delivering high-impact training and advisory services that turn potential into results

#### Core Services

- DigSILENT & PVSyst software training
- Smart engineering AI tools software.
- Leadership and Management Coaching.
- AutoCAD training & drafting tools development.
- Construction & engineering project management.



# The Aepax Roadmap

2026

## Foundation & Innovation

Founded to champion African innovation, Aepax sets the stage for a future defined by growth, progress, and bold ideas.

2028

## Intelligent Scaling

Aepax scales smart, sustainable design powered by AI and BIM, setting new standards in safety and excellence.

2030

## Continental Leadership

Aepax stands at Africa's engineering forefront, launching specialized divisions and shaping the continent's future.

2035

## Global Influence

Aepax emerges as a Pan-African powerhouse, on its way to becoming a global reference in engineering innovation.



# Our Values

*The Five Pillars of Aepax*



## Integrity

Every foundation we lay stands on truth, discipline, and respect for our promise.



## Human Impact

We engineer for people. Technology means nothing unless it transforms lives.



## Innovation

We challenge convention to create what others only imagine.



## Excellence

We pursue mastery in every detail, building to the highest standards.



## Sustainability

We build for generations. For Africa's land, people, and tomorrow.



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## Our Niche

'Africa's first [simulation-driven](#) and [R&D-based sustainable engineering](#) company.'

Aepax exists at the intersection of design, data, and discipline; integrating digital tools, research, and human-centred design to deliver engineering that endures.

Our strength lies not in scale, but in how intelligently we build.



# Corporate Social Responsibility (CSR)



## Community Engagement

Supporting local communities via education and skill development initiatives.



## Environmental Sustainability

Reducing carbon footprint through eco-friendly engineering practices and solutions.



## Employee Well-Being

Promoting a healthy, inclusive, and supportive workplace culture.





# The Future of Aepax

Aepax Engineering Limited is the cornerstone of a greater ecosystem. The foundation of the future [Aepax Group](#), a multidisciplinary enterprise committed to transforming Africa's industrial and technological landscape.



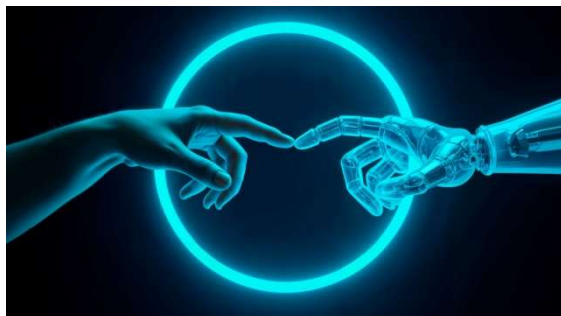
## Aepax Mining

Sustainable mining, beneficiation, and waste recovery.



## Aepax Water

Water supply and environmental management.



## Aepax Smart Systems

Digital twins and AI Modelling & Integration





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## Contact Information

### Email Address

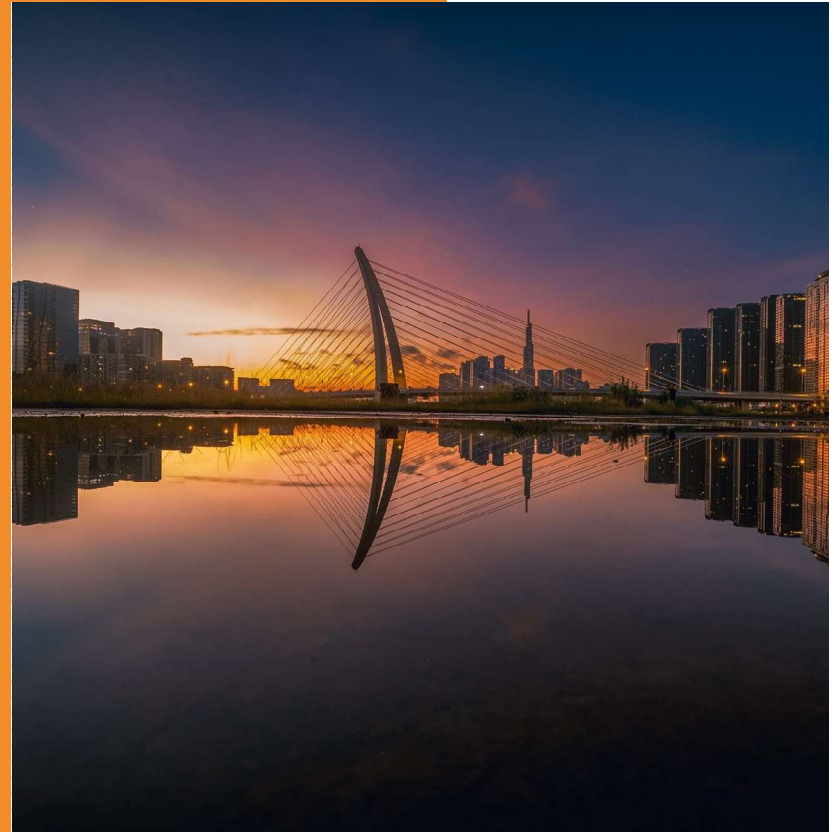
charlesmuvombo@aepaxengineering.com

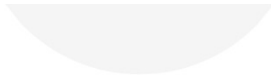
### Phone

+260 779 254454 & 974 773985

### Website

[www.aepaxengineering.com](http://www.aepaxengineering.com)





**AEPax  
Engineering**



***Let's Build a Sustainable  
Future, together.***





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