

Vayuvya Raksha Systems

Micro Gas Turbine Development

Sector: Aerospace & Defence Propulsion

Vayuvya Raksha Systems is developing compact, high-efficiency micro gas turbine systems for propulsion and power-generation applications. The venture bridges thermodynamic research with deployable aerospace hardware.

Technical Focus

- Compact gas turbine architecture and thermodynamic cycle design
- Precision mechanical, combustion and rotating-machinery integration
- Control-system prototyping for stable operation across conditions

Gonagoor Support Provided

- Seed funding for early-stage development
- Technology foundations and architecture review
- Mathematical modelling and thermodynamic simulation
- Rapid prototyping and component validation
- Market access and partnership support
- Grant and funding pipeline support
- End-to-end product development mentorship

Impact & Outcomes

- De-risked core turbine concept through simulation-led design
- Established reproducible build and test workflow
- Created foundation for defence and industrial power applications

Prepared by Gonagoor Technologies — Where research meets engineering.