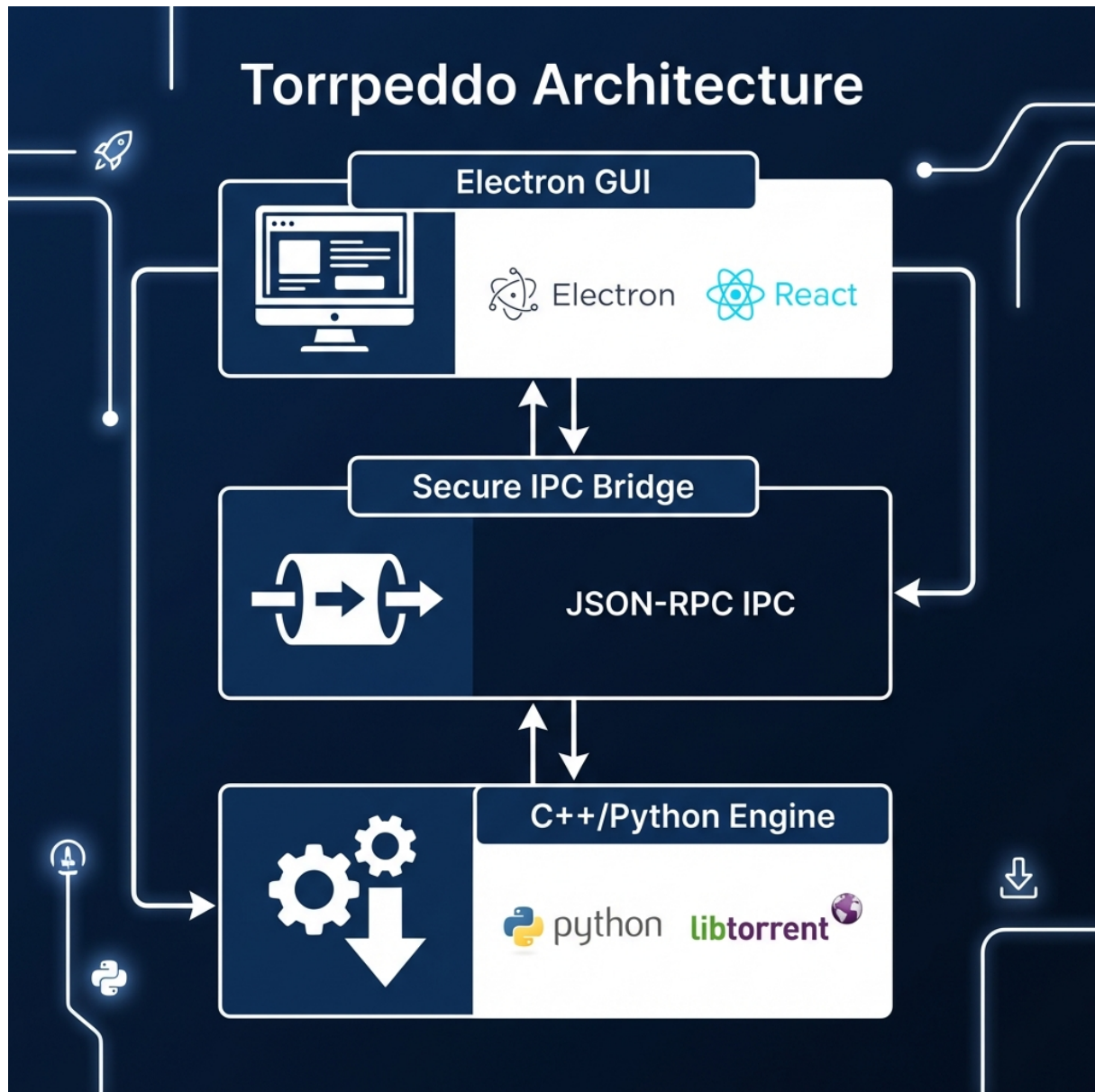# TORRPEDDO PROJECT BOOK

Executive Summary

Torrpeddo is an industrial-grade, premium torrent client designed for the modern desktop. By combining the speed of the C++ `libtorrent` engine with the versatility of the Electron framework, Torrpeddo offers a seamless, high-performance experience that bridges the

gap between complex network protocols and professional user interfaces.

Architectural Deep Dive

Torrpeddo follows a decoupled architectural pattern, separating the presentation layer from the core logic and network engine. This is achieved through three primary layers:

1. Frontend: Electron Framework

What is E

Benefits for Torrpeddo:

- **Visua**

to create a

2. The Bridge: IPC (Inter-Process Communication)

What is IP

Implementation: Secure JSON-RPC

Communic

Why this approach?

- **Dece

touching t

3. Backend Engine: Python & libtorrent

The Core:

Multi-threaded Performance:

- **Engir

polling, a

fragments

Development Process & Methodology

The Torrpeddo project followed a "Platform-First" methodology:

1. **Engir

throughpu