EXIMIUS
Excellence Everyday

AEROSPACE DIVISION

Spark, Ignite, Excite

● Services ● Sales ● Staffing ● Support

AEROSPACE ENGINEERING SERVICES

Eximius Design Provides Best-in Class Engineering Services (Systems, Software, Hardware, test engineering) for Commercial, Business & Military Programs with Expertise in DO-254, DO-178C and ARP 4754 Standards with Majority of the Work relates to Supporting DAL-A to DAL-E Systems.

Quick Facts

- Design and Development centres in four countries
  San Jose, United States(Headquarters)
  Bangalore, Hyderabad, Chennai & Ahmedabad (India)
  Singapore Penang & Johor Bahru (Malaysia)

- Expansion to other Geographies under discussion

- Eximius offers a comprehensive range of Product Engineering services to Component Vendors, OEMS and across multiple industry segments and domains.

- Engineers have a range of 3 to 18 years of work Experience in different Aerospace Programs such as Boeing 747-8, 777, 787 Gen-3, Airbus A350, Gulf stream 450, Embraer KC-390 Motor Drive Systems & Flight Control Electronics.

- Sub System Capabilities: Flight Control Systems, Flight Management Systems, Electrical Power Generation, Control Systems& Breaking Systems.

- Quality & Process Assurance: DO-254 Compliant HW development, DO 160 E Environmental Testing, DO 330: Tool Qualification & AS9100 Rev C Process Compliance.

TECHNOLOGY AT WORK FOR YOU

CONNECTING YOUR BUSINESS TO THE TECHNOLOGY RESOURCES YOU NEED

Eximius offers a comprehensive range of Product Engineering services based on RTCA DO-254, DO-178C and ARP 4754 to OEMs, Tier1 Suppliers & Aircraft Manufacturers. The Company provides turnkey solutions including Systems, Software, Hardware & Test Engineering & expanding its service offering by delivering value through service level-based and project scope-based deliveries. The Company follows AS9100 Rev C Quality Process.

The Company has capabilities in Flight Control & Flight Management Systems, Electrical Power Generation & Distribution Systems, Breaking Systems & Motor Drive Electronics.

Value Propositions:

- Total Engineering Cost Reduction by Robust Quality initiatives.
- Increase flexibility in capacity
- Accelerate Time - to - Market
- Improve access to Emerging Markets

SERVICES

- System Assessment, Architecture, Design compliant with ARP-4754 guidelines.
- Processes & Methods Definition, Proofs of Concept Design.
- Model Based Design & Verification
- DO-178C Software Development, Validation & Verification
- DO-254 ASIC/FPGA Design, Validation & Verification
- Tools Qualification compliant with RTCA DO-330
- Reliability Engineering
- Obsolescence Management
- Model in the loop & Rapid Prototyping Design Expertise
- DO-254 Hardware Design, Prototyping & Testing

FLEXIBLE SOLUTIONS FOR YOUR BUSINESS NEEDS

Eximius Offerings

With a talent pool spread across 4 countries and across all critical areas of engineering such as Systems, Software, Hardware (FPGA, board design) & Testing, we help aerospace OEMS and Tier1 companies reduce their Time - To - Market and improve on quality.

The Eximius Aerospace team's expertise is not just limited to a deep understanding of related technologies but also a familiarity with the key industry Standards, Processes & Procedures. Our engineers have worked on solutions that incorporate various standards such as DO-254, DO-160, DO-330, DO-178C & ARP 4754.

Domain Expertise

Motor Controller – Closed Loop Actuation Controllers, Aircraft Data Management Systems, Primary Flight Control Systems

Protocols

ARINC 429, ARINC 717, AFDX, MODBUS, CAN, MIL 1553, SPI, I2C, RS-232, RS-422, RS-485, PCI, USB, Ethernet MAC & ARINC-629

Business Models

- Resource Augmentation
- Offshore Development
- Milestone/Outcome Based

TECHNOLOGY CONSULTING PROVIDES A TOTAL END TO END SOLUTION

System Engineering (ARP-4754)
System Requirements, Architecture & Development (ARP 4754) System Safety Assessment (ARP 4761)

Software Engineering (DO-178C)
Software Requirements
Software Design Documentation
Software Detailed Design
Software Validation & Verification
Model Based Design, V&V Tool Assessment & Qualification
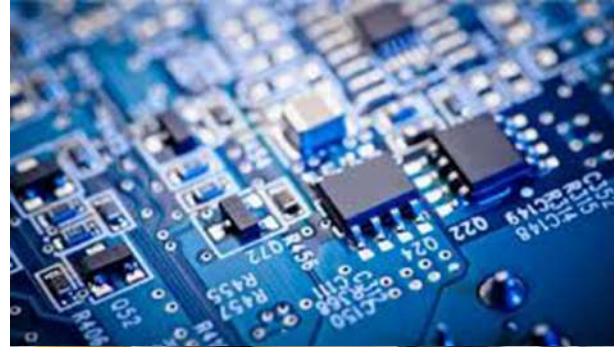
Hardware Engineering (DO-254)
Hardware(Board level, FPGA) Requirements Hardware (Board level, FPGA) Conceptual Design, Detailed Design Hardware (Board level, FPGA) Validation & Verification Tool Assessment & Qualification
Reliability Engineering
Obsolescence Management

Test Engineering
ATE Setup, Functional Tests using ATE Design Verification Testing (DO-160) FPGA based ALDEC Testing Rapid Prototyping

Programs Involved
A350 ETRAC, Sikorsky CH53K, MC21 MDE, MC21 AEUA, KC390 MDE, KC390 FCEM, 737MAX-GCU & BPCU & 777X-GCU