

Project Case Study

ARCADIA GLOBAL SCHOOL

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The Project

The Arcadia Global School Performing Arts Facility was developed as a purpose-built, multi-functional venue designed to support academic, cultural, and community events within a modern educational environment. The project forms a key component of the school's infrastructure, aimed at fostering creativity, performance excellence, and student engagement through access to professional-grade theatre facilities.

The development includes a 1,170-seat main auditorium and a 32-seat black box theatre, each designed to accommodate a wide range of performance formats including theatrical productions, musical performances, lectures, and multimedia presentations.

Oasis Enterprises was appointed under a design-and-build contract, working in close coordination with Godwin Austen Johnson as the lead consultant. The design phase was completed within a six-month timeframe, requiring efficient coordination across architectural, structural, MEP, and specialist systems disciplines.

A key objective of the project was to deliver a fully integrated, future-ready performance environment, incorporating advanced AV technologies, stage engineering systems, and acoustic design, aligned with international standards for performance venues.



Scope of Work

Oasis Enterprises was responsible for the end-to-end delivery of all theatre and performance systems, including design, engineering, supply, installation, integration, and commissioning.

a. Audio-Visual Systems

- Deployment of a professional-grade audio system designed to achieve uniform sound pressure levels (SPL) and high speech intelligibility across the auditorium.
- Integration of digital audio processing, amplification systems, and stage input infrastructure to support both live and recorded content.
- Installation of high-resolution projection and display systems suitable for presentations, performances, and multimedia events.
- System designed with provisions for future expansion and integration with external broadcast or recording systems.

b. Stage Lighting Systems

- Installation of intelligent LED stage lighting fixtures, providing flexible and programmable lighting scenes.
- Implementation of DMX-controlled lighting networks with centralized control consoles.
- Design considerations included:
 - Energy efficiency and reduced thermal output
 - Flexible lighting configurations for different performance types
 - Compliance with theatre lighting standards and safety requirements

Scope of Work

c. Motorized Rigging Systems

- Integration of motorized rigging and hoisting systems to support lighting bars, curtains, and stage equipment.
- Systems designed for:
 - Safe load handling and precise positioning
 - Programmable movement for dynamic stage setups
 - Compliance with international safety standards for theatrical rigging

d. Acoustic and Sound Isolation Systems

- Implementation of acoustic treatment solutions within the auditorium and black box theatre to:
 - Optimize reverberation time (RT60)
 - Enhance speech intelligibility and musical clarity
 - Minimize external noise intrusion and internal sound leakage
- Sound isolation measures were incorporated to prevent cross-interference between adjacent spaces.

e. Theatre Infrastructure and Finishes

- Installation of performance-grade stage flooring, designed to accommodate various performance types including dance and theatre.
- Provision of a fully functional orchestra pit, integrated with stage operations.
- Installation of theatre drapery systems, including stage curtains and masking systems, using fire-rated materials compliant with safety standards.
- Supply and installation of high-quality seating systems, designed for durability, ergonomics, and optimal sightlines.
- Integration of carpets and finishes aligned with acoustic and aesthetic requirements.

Scope of Work

f. Black Box Theatre

- Development of a flexible 32-seat black box theatre, designed for experimental and small-scale performances.
- Systems configured for modular layouts, enabling reconfiguration of seating, lighting, and stage elements.
- Independent AV, lighting, and control systems tailored to smaller-scale productions.

g. Integrated Control System

- Deployment of a centralized control platform integrating all AV, lighting, and stage systems across the facility.
- User interfaces designed for ease of operation, including touch panels and preset configurations.
- System architecture designed to ensure:
 - High reliability and fail-safe operation
 - Simplified control for non-technical users
 - Real-time monitoring and diagnostics

Client Requirements



The client required a high-performance performing arts facility that supports both educational and professional-level productions while maintaining operational simplicity.

Key technical requirements included:

- Delivery of a fully integrated AV and stage technology ecosystem
- High-quality audio performance with consistent coverage and clarity
- Flexible lighting and rigging systems to support diverse event types
- Optimized acoustic performance and sound isolation
- Provision of a multi-functional performance environment, including a main auditorium and black box theatre
- Installation of durable, high-quality theatre infrastructure (seating, flooring, drapery)
- Implementation of a centralized control system for efficient operation
- Compliance with relevant safety, fire, and performance standards
- Completion within a defined design and delivery timeline

Project Challenges

The project presented several engineering and coordination challenges due to its scale and multidisciplinary requirements:

- **Accelerated Design Timeline:**

Completion of the design phase within six months required efficient coordination between architectural, structural, and specialist system teams.

- **Multi-System Integration:**

Integration of AV, lighting, rigging, and acoustic systems required a unified design approach to ensure compatibility and seamless operation.

- **Acoustic Performance Requirements:**

Achieving optimal acoustic conditions in both large and small performance spaces required detailed analysis and tailored treatment solutions.

- **Structural Coordination for Rigging Systems:**

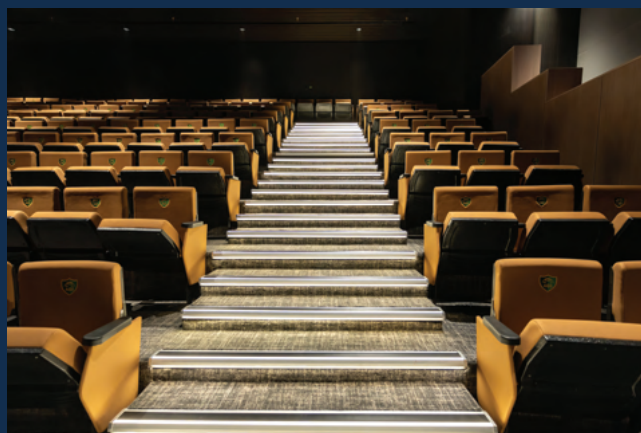
Installation of motorized rigging systems required precise coordination with structural elements to ensure load compliance and safety.

- **Operational Flexibility:**

The need to support a wide range of events required systems to be highly adaptable while maintaining ease of use.

- **Space Optimization:**

Integration of multiple systems within defined architectural constraints required careful planning to avoid conflicts and ensure accessibility for maintenance.



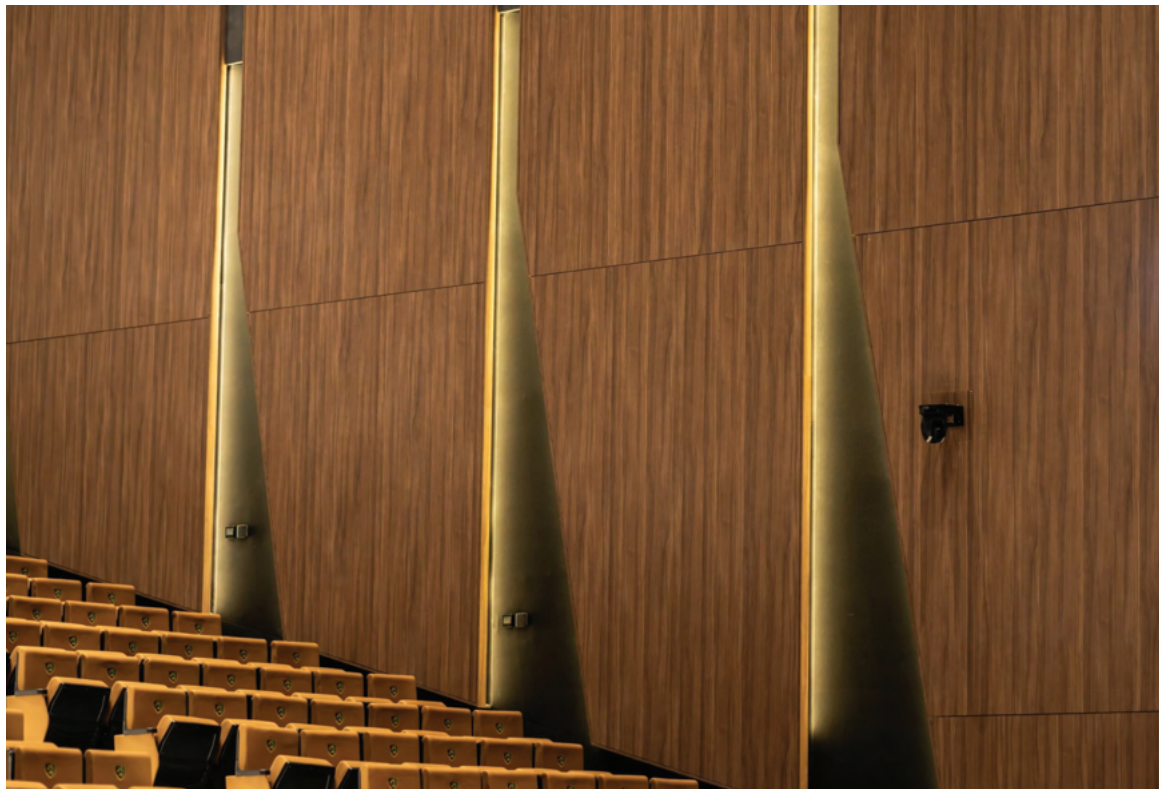


Project Outcomes

The project was successfully delivered in accordance with the design brief, achieving all technical and functional objectives.

Key outcomes include:

- **Fully Integrated Performing Arts Facility:**
Delivery of a cohesive, high-performance environment with seamless integration across all AV and stage systems.
- **Enhanced Audio and Visual Experience:**
Optimized audio clarity and visual performance ensure high-quality experiences for both performers and audiences.
- **Flexible and Scalable Systems:**
The facility supports a wide range of event types, with systems designed for adaptability and future expansion.
- **Improved Operational Efficiency:**
Centralized control systems simplify operation, reducing the need for specialized technical intervention.
- **Compliance and Safety Assurance:**
All systems were implemented in accordance with relevant safety and performance standards.
- **High-Quality Infrastructure:**
Installation of durable, performance-grade materials ensures long-term reliability and reduced maintenance requirements.



Client Testimonial

"Our sincere gratitude goes to the entire OE team involved in the secondary campus project. Today, we successfully welcomed secondary parents and students, and all systems ran smoothly. Thanks to your efforts.

We would also like to extend a special thank you to Shaheen for his outstanding support. We have been working closely with him across both the primary and secondary campuses, and his dedication and quality of service truly stand out. He takes the time to fully understand our requirements and ensures that every system is delivered to the highest standard.

Once again, thank you to the whole team for making this possible."

-Jothi Ramasubramanian
ICT Lead Engineer - Arcadia Global School

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