Kyle Matheson, Principal Consultant,

McSquared System Design Group Inc.

Audio/Visual, Collaboration & Simulation Training Systems Technology Design Consultant

Years of Experience: 14 years

Profile:

Kyle started his career in theatre and live production. His first introduction to audio and video came by working with touring productions and with the local professional theatre, Western Canada Theatre Company. Kyle did an apprenticeship in Technical Direction with WCTC that lead to technical direction positions at various theatres, building experience in rigging, lighting design, sound design, live mixing and theatre management. In 2001, Kyle was selected to participate in the final construction and opening of the state of the art multi-venue Vernon & District Performing Arts Centre as its inaugural technical director.

The Vernon Performing Arts Centre was a beta-space for the Variable Room Acoustic System that was later acquired by Meyer Sound. Kyle's participation in the installation, modification and deployment of this system sparked a lifelong interest in acoustics, audio calibration and the use of technology to enhance the experience of participants in immersive learning and entertainment environments.

After a year-long tour as the Technical Director of Ballet Jorgen Canada, Kyle joined PJS Systems Inc.

At PJS Systems, Kyle developed a role within the company that allowed for a hybrid of project management and technical expertise culminating in the position of Vice President of Design and Technology. This allowed him to work on a myriad of different projects, gaining valuable experience in all the different disciplines of an integrated technology solution including audio, video, control and networking.

Kyle focused on systemization of both project management and technology deployment. Under his supervision PJS Systems developed standardized documentation procedures, unified quotations and scopes of work, as well as an audio video calibration standard that allowed them to design, bid and implement some of the largest technology projects in Canada.

With McSquared, Kyle is excited to continue to grow his skills in advanced audio measurement and calibration, as well as continue to develop deployment standards and standardizations within enterprise grade projects. He will use his experience with networks to focus on streaming technologies and server based deployments of audio, video and technology.

Additionally, Kyle's calibration and commissioning skills will verify that systems meet or exceed design specifications, allowing users to experience technology in an immersive and non-intrusive manner.

Education and Qualifications:

INFOCOMM	Certified Technology Specialist - Design
BCSA	Field Safety Representative #41245 FSR "FE" Full Entertainment. FSR Low Energy Systems.
EXTRON	Audio Video Technologies for System Designers. Emerging Technologies.
IND CAN	Certificate of Proficiency in Amateur Radio – Basic with Honours
CRESTRON	Essentials of Programming Intermediate Programming
AMFG	Sound System Optimization and Measurment
BIAMP	Audia DSP Programming Tesira DSP Programming
BSS	BSS Soundweb London DSP Programming 101 & 201
HARMON	Audio Associate – Programming SVSi Designer SVSi Technician
IED	LANCom Sales and Design
SALITEK	MPDP Design & Installation Certification
QSC	Q-SYS Level 1

Employment History:

- 2017 to current, Senior Consultant, McSquared Systems Design Group Inc.
- 2004 – 2017 PJS Systems Inc.
- 2003 – 2004 Ballet Jorgen Canada
- 2001 – 2003 Vernon & District Performing Arts Centre
- 1994 - 2001 Western Canada Theatre Company

Associations:

- AVIXA (formerly Infocomm)

Relevant Experience and Capabilities:

Northern Alberta Institute of Technology (NAIT), Centre for Applied Technology, Edmonton, AB

Project Management and Integration of enterprise level, fully integrated education A/V Systems, for teaching, learning and collaboration spaces such as lecture theatres, classrooms, health teaching labs, applied sciences teaching labs, and medical simulation center. The A/V systems included Presentation systems, medical capturing and centralized debriefing content management systems (MCDS). Medical training simulation Centre systems include the integration of Laerdal, Gaumard and CAE human patient simulators for patient vital sign and user data collection over the network, A/V & the MCDS systems.

Completed: October 2016
A/V technology Systems value: $2.5M

Hospital for Sick Children, Clinical Capture Systems, Toronto, ON

Design, Project Management and Integration of enterprise level, high definition, fully digital, clinical video and audio capture systems for recording and streaming playing back of recorded clinical research sessions.

Completed: November 2014
A/V Technology systems Value: $400K

UBC, FoM, Distributed. Medical Program, BC

Project Management, Integration and Calibration of distance education enabled AV systems used at over 100 university and Clinical sites throughout BC for the remote education of the Distributed undergraduate BC Medical Program.

Completed: Since 2007, projects ongoing.
Technology System Value: $ 45M

Queens University, TEAL Classrooms,

Kingston, ON

Design, Project Management, and Integration of two Technology Enable Active Learning Labs used by Queens University to create a pedagogical experiment for all faculties to explore the TEAL concept and develop new teaching methods.

Completed: Jan 2014
Technology System Value: $400K

Congregation Beth Israel, Synagogue AV Systems, Vancouver, BC

Design, Project Management and Integration of a new synagogue including sound systems, video projection, digital signage, controls systems and classrooms required to meet the needs of an innovative facility required for services, banquets, rentals and education. Additional design considerations were required for this project as the synagogue required full automation of the sanctuary systems to allow for the observation of Shabbat.

Completed: Oct 2015
Technology System Value: $400K

Vancouver Talmud Torah School, New Addition AV Systems and Paging, Vancouver BC

Design audio video systems for the new school addition that included a divisible gymnasium, cafeteria, classrooms and rooftop basketball court that allowed for maximum flexibility in use. This design required the gymnasium to be utilized as a single space, divided space or as a performance space with the adjacent cafeteria and changing rooms acting as backstage staging areas.

Completed: Sept 2016
Technology Systems Value: $250K

Okanagan Correctional Centre, Open Voice Communication System, Oliver, BC

Designed an open voice communication system that linked operational command posts, emergency operations centre and command and control room together with single button push controls. This system utilized multiple acoustical echo cancellation circuits, network streaming, and concealed technology to allow seamless real-time communication throughout a facility without requiring the use worn or handheld technology.

Completed: May 2017
Technology Systems Value: $150K

Vancouver Community College, Nursing Lab Simulation System, Vancouver, BC

Designed, Project Management and Integration of an audio, video, recording and control solution for a multi-bed, dual operator nursing simulation centre. This solution included multiple cameras per patient care area, as well as bi-directional duplex audio and a digital recording solution.

Competed: 2008, Refreshed in 2017
Technology Systems Value: $50K

BCIT, Nursing Lab Simulation Audio System, Burnaby, BC

Designed and calibrated an audio simulation system for the nursing labs. The design is flexible so that any operator station can dynamically switch to any patient care area. Utilization of gain sharing auto-mixers, multi-capsule microphones and acoustic echo cancellation allows for immersive simulation of nursing scenarios.

Completed: June 2017
Technology Systems Value: $60K