CURRICULUM VITAE

PREM JOY GNANASEKARAN

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PROFESSIONAL SUMMARY
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Enthusiastic Audio Engineer, motivated to work further in the field of audio and music technology with the additional knowledge gained recently during my MSc in Audio Engineering along with the industry and freelance audio engineering, music production experience gained over few years. Proficient in advanced concepts of sound system design and optimization, perceptual audio, immersive audio, and building acoustics. Passionate about innovative audio concepts and R&D of Next Generation Audio technology.

SKILLS
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Microsoft Office **|** Microsoft Excel – Analysis Tool pack **|** MATLAB **|** Signal processing **|** Digital Audio Workstation **|** Audio Recording (studio, live) **|** Audio networking **|** Audio console operation **|** System calibration **|** NI Multisim **|** Acoustic modelling **|** Beam tracing **|** Acoustic measurement **|** C++ **|** VST plugin development **|** Ambisonics **|** Spatial audio **|** Immersive audio **|** Next Generation Audio **|** Basic of Q lab **|** Team- player **|** Troubleshooting **|** Proactive **|** Problem solving **|** Report writing **|** Time Management **|** Technical Presentation **|**

WORK EXPERIENCE / PROJECTS
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Audio Engineer / Music Producer   **2017 – Present**

- **Audio Engineer** (2017 - Present): Performed freelance work in mixing and mastering music, audio, and SFX for social media platforms, online teaching sessions (live and recorded) and video commercials.
- Delivered object-based audio, Dolby Atmos mix for a game based short film and immersive audio production for various other short film and feature film projects (2022 – 23).
- FOH audio mix engineer – Country cousins band, Dubai (2019).
- **Assistant audio engineer**: Ensured setup, testing, and troubleshooting of mics, loudspeakers calibration and audio networking for various live events at KM College of Music and Technology.
- Recorded album tracks for 30 Independent artists during the IndieEarth Xchange event at KM Studios, 2019.
- Performed system calibration and tuning to ensure high quality audio for a 500-member seating auditorium during the KM Conservatory collaboration concert with Goethe-Institut / Max Mueller Bhavan, 2019.
- Setup advanced miking techniques and cable patching for Bluegrass band and Strings Fest 2020 at KM Auditorium, involving 8 unique guitars and a 20 member Strings Orchestra.
- **Audio Intern**: Served as a sound engineer for Sunshine strings and brass Orchestra at KM Music Conservatory, AR Rahman Foundation, Chennai.
- **Assistant Recording Engineer** (2017 - 2018): Assisted the audio team in live audio recording of private concerts by various bands at different venues in Bangalore, Chennai and Dubai.
- Studio recording sessions for various albums at Sanctuary Media solutions.
- **Assistant Music Instructor**: Music Supervisor / Instructor for Intermediate guitarists and vocal students at Muzik Garage, Bangalore (2014-2017)

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Technical Associate Engineer, IBM - Bangalore, India.   **2016-2017**

- Provided B2B support for IBM clients in America and Europe Middle East Asia region via telephone, web chat.
- Critically analysed problems, identified root causes, and implemented solutions utilising technical expertise to troubleshoot and resolve issues promptly, while adhering to company standards**.**
- Collaborated with clients from concept through final delivery of product and service.
- Trained junior members of the IT team, on network security and troubleshooting of data circuits.
- Collaborated with upper management to drive strategy and implement new processes.
- Managed to solve over 100 incident tickets per day.

EDUCATION

Master of Science in Audio Engineering 2022 – 2023
University of Derby, Derby, England.
Dissertation: Evaluation of workflow and rendering capabilities of two Next Generation Audio Suites using ADM format – Dolby Atmos Production Suite & EAR Production Suite.

- Designed and optimized sound systems for open and closed theatres through acoustical simulation on 3D models.
- Proficient in designing listening tests, analysing data for psychoacoustical perception, and utilising Binaural and Ambisonics recording techniques.
- Designed and constructed audio electronics principles such as transducers, crossovers, filters, and power amplifiers using NI Multisim and PCB prototyping.
- Developed a functional audio software plugin using MATLAB, C++, and Aspik programming, including GUI design.
- Researched, analysed, and presented a detailed seminar on the future work of a cutting-edge AES paper titled "MPEG-H Audio Production Workflows for a Next Generation Audio Experience in Broadcast, Streaming, and Music."
- Performed measurement tests for acoustics in building following the British standards for Reverberation Time, Airborne Sound Insulation, and Indoor Noise Levels.

Diploma in Audio Engineering and Music Production 2018 - 2020
KM College of Music and Technology, Chennai, India.

- Gained fundamental knowledge in studio recording techniques, microphone placement, signal flow in both analogue and digital audio consoles.
- Developed skill in audio mixing and mastering using digital audio workstations (DAWs) and basic understanding of sound design for games and feature films.
- Actively participated as a student audio engineering team developing in situ experience using Pro AV setup , audio networking from workshops, student concerts and events at KM Conservatory both on and off campus.

Bachelor of Engineering: Electronics and Communication Engineering 2011 - 2016
Rajiv Gandhi Institute of Technology, Bengaluru, India.
Final Year Project: RFID-based Attendance System: Designed an authentication system using ATmega8 Microcontroller, primarily implemented in educational institutions and industries.
Technical Seminar: Presented an individual seminar based on an IEEE paper titled "Silent Sound Technology," focusing on its application in Image Processing.

- Foundation knowledge in electronics-based subjects such as Signals and Systems and Digital Signal Processing.
- Applications of core electronics in VHDL, RTOS and embedded systems in the broad field of Telecommunication systems.

ACCOMPLISHMENTS

- Responsible for setup recording and assisted in setting up a live immersive audio system for a VR production, "Odyssey", winner of Best Digital Project at The Stage Awards 2023.
- Assistant audio engineer – Le Musk, a VR based film.
- Assisted audio setup for rehearsals of Oscar winning composer - AR Rahman's live in concerts and Qawwali team.
- Organised the analog and digital patch and connections for a one-of-a-kind concert involving 20 beat triggering Komplete Kontrol Maschine pads by Native Instruments, KM Music Conservatory.
- Represented university-level Badminton team for BUSC, England and Bangalore, India.

CERTIFICATIONS AND WORKSHOPS

- System Design and Optimization - Meyer Sound 2023.
- Certified in fundamentals of ArrayCalc, R1 Remote, ArrayProcessing, Line Array Theory by d&b audiotechnik.
- Completed a 14-day training by L-Acoustics on Introduction to Immersive audio and Live sound system optimisation.
- Completed online training on Live systems - Solid State Logic 2020.
- Harman - Certified Audio Design Associate and Audio Architect.
- Shure - Certified in Wireless RF Technology.
- Audinate - Certified in Dante Level 2.
- AVIXA - Certified Technologist for AV.
- Shure RF wireless workbench by Sun Infonet 2019.
- Allen & Heath dLive series Mixing Masterclass 2019
- Focusrite and Universal Audio India Tour - 2018 and 2019.