

PROFILE Highly-motivated electrical engineer, audiovisual engineer and AMX/Crestron programmer with senior-level expertise in commercial A/V solutions & technologies, conferencing/VTC systems and integrated control systems. Well-established reputation for professionalism, work ethic and exceptional communication & interpersonal skills. Extremely organized problem solver with strong record of leadership and teamwork. Enthusiastic and passionate with tremendous customer service success rate and numerous endorsements from a broad & loyal client-base eager to bring their business to the audiovisual vendor I sign on with.

EDUCATION **Bachelor of Science in Electrical Engineering** (December 2009)
Pennsylvania State University – University Park, PA 16802

EXPERIENCE

Audio Visual Engineer/Programmer – Hoppmann Audio Visual – Chantilly, VA (4/2011-3/2016)

- Designed, programmed, troubleshot & debugged commercial audiovisual, conferencing and integrated control systems featuring interactive touch-panel/iPad user interfaces for conference rooms, lobbies, auditoriums, operation centers & SCIFs.
- Developed and maintained high-level engineering expertise in virtually all equipment & technologies of new and legacy audiovisual & control systems from industry-leading manufacturers.
- Routinely met & overcame my company's most complex hardware/programming engineering challenges.
- Interacted directly with high profile public- and private-sector clientele, working to achieve their extreme satisfaction while building ongoing service relationships ensuring client retention for future projects.
- 4.5+ years of Netlinx programming/debugging experience and configuration of AMX systems.
- 3+ years of SIMPL programming/debugging experience and configuration of Crestron systems.

Laboratory Developer – Electrical Engineering Dept. – Penn State University (8/2009-8/2010, 1/2011-4/2011)

- Renovated Penn State's Microwave Engineering Laboratory.
- Modernized and expanded the EE432 Microwave Engineering laboratory curriculum.
- Trained students to operate RF lab equipment (Network Analyzers, Spectrum Analyzers, etc.).

Research Assistant – Electrical Engineering Dept. – Penn State University (9/2010-4/2011)

- Led construction efforts to erect a large antenna array for meteor detection.

Teaching Assistant – Electrical Engineering Dept. – Penn State University (Spring 2010)

- Provided all laboratory instruction for the senior/grad-level course, EE432 Microwave Engineering.
- Authored course lab activities (15% of course grade) and guided students through the design, fabrication, and testing of a 2.4GHz, +15dB balanced power amplifier (25% of course grade).
- Assisted students in the use of Agilent's Advanced Design System (ADS) software for RF circuit simulation and PCB layout simulation. Developed an ADS 2009 software tutorial.

Project Manager, Design Lead – Audio Engineering Society – Penn State University (9/2007-8/2009)

- Led a team of students in the design & construction of a high-fidelity audio power amplifier.
- Founded the project in September 2007; sponsored by PSU AES; additional funding from PSU EE Dept.
- Designed and prototyped preamp circuits, filters, power supplies, discrete transistor amps, protection circuitry, audio switching circuits, sensor circuits. Implemented PIC MCU; authored source code.
- Designed, fabricated and assembled the final 50-watt power amplifier on printed circuit board.

Laboratory Assistant – Electrical Engineering Dept. – Penn State University (Fall 2008, Spring 2009)

- Assisted students with their laboratory exercises and homework assignments for undergraduate courses: EE210 Circuits & Devices, and EE310 Electronic Circuit Design I.
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AWARDS

- Training Certificates from AMX, Crestron, Extron, Biamp, and BSS Audio
- Pennsylvania Skills Certificate in Electronic Technology, 2002
- Outstanding Underclass Student of 2001–2002 Award in Engineering Technology

ACTIVITIES

- Student Officer, Penn State University Audio Engineering Society, 2007-2009
- Chief Audio Engineer, Lighthouse Fellowship Church, 2004-2007