



## MICHAEL HAYNES

ENGINEER / PROGRAMMER

### ABOUT ME

I have always believed education was, extremely, important. I thought having a single degree would be a great achievement but I was not confident that it would give me a secure future. So I chose an academic path that led to multiple technical degrees. I believe this greater academic diversity would provide a successful future. After college I 'stumbled' into the audiovisual industry and I have continued this multi education path.

**P**rogramming is a life-long learning experience. Experienced software engineers seek to find solutions to problems they haven't solved yet because it gives them the opportunity to learn more. If you find yourself waiting for the moment when you finally feel like you know everything there is to know about coding, know this: the day you're waiting for will never come.

### SKILLS

- AutoCAD / Visio
- Audiovisual Design
- HTML5, C#, Lua and Java
- **Apple Swift ( Swift UI / Xcode )**
- Photoshop, Lightroom & Premiere pro
- Visual Studio
- AMX - NetLinx, Cafe Duet
- Crestron - SIMPL Windows, SIMPL# Pro
- Biamp & QSC DSP Configuration
- iOS Developer

### CONTACT

**516 - 269-2020**

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### ONLINE RESUME

[www.michaelhaynes.me/resume](http://www.michaelhaynes.me/resume)

### WORK EXAMPLE

[www.michaelhaynes.me/examples](http://www.michaelhaynes.me/examples)

### HOBBIES

- Photography
- Coding / Programming
- Online classes
- Running / Jogging

## Education

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Bachelor of Science	<b>Electronic Engineering Technology</b>	Western Carolina University
Associate Degree	<b>Electronic Engineering</b>	Southwestern Community College
Associate Degree	<b>Computer Engineering</b>	Southwestern Community College
Associate Degree	<b>Liberal Arts</b>	Southwestern Community College

## Activities

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Treasurer of Student Government Association (SGA)  
Synergetic Audio Concepts Member (SynAudCon)  
Elite AVIXA Member  
Dean's List & President's List - Electronic Engineering core classes (EET) GPA 3.62  
Novell Networking Technologies

## Experience

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Certified Audiovisual Freelance Programming  
From/To 9/2018 – Present

Keeley Companies  
Software Engineer (AMX, Crestron, Apple, Biamp, Utelogy / Java & C# Programming)  
*Reason for leaving*  
Safety concerns & and my well-being at a job site location — inappropriate activity.  
Also, problems with the company to generate independent sales.  
*Specific duties* - AMX, Crestron, Biamp, and ClearOne programming and commissioning. I configured DSP systems (Biamp /ClearOne) and AMX/Crestron from beginning to final commissioning.

Private development project directly with Utelogy (Visual Studio / C# Programming)  
From 2/1/17 - 5/1/17

Private development project directly with AMX  
Summer 2016

Code Creative XL | Position: Engineer / Programmer and Owner  
Location: worldwide | From 4/1/08 - 5/1/16  
Specific duties - I coordinate with the technical services, implementation to assure proper scheduling and integration of systems. Manage budgets, timelines in order to successfully execute the overall project plan and system programming. I was responsible for creating equipment lists, floor plans, rack, detailed audio, video and control diagrams, control system programming and implementation of Biamp systems.

Barad AV | Location: New York  
Position: Programmer | From/To 12/2006 – 11/2007  
*Reason for leaving*

I was laid off due to the amount of work, at that time and the economy was slowing down.  
*Specific duties* - I designed and installed audio/visual systems and maintained client systems/equipment. I provided technical help for A/V systems and programming of AMX and Crestron systems and touch panel layouts.

College (Western Carolina University)  
From/To 7/2005 - 8/2006

Long Communication Location: Winston Salem NC  
Position: Engineer / Programmer | From/To 12/2004 – 7/2005  
*Reason for leaving* - Corporation was changing owner/name and I was going back to college to get my BS in EET  
*Specific duties* - I designed A/V systems with AutoCAD and programming commercial AMX and Crestron control systems. I handled a project from design to final development and deployment of system. Duties include engineering and programming high end Audio/Visual computer controlled presentation systems.

Integrated Electronic Environments Location: Naples FL  
Position: System Designer Engineer/Programmer | From/To 12/2000 – 10/2004  
*Reason for leaving* - Corporation went out of business  
*Specific duties* - I provided technical help for A/V systems. Programming for AMX and Crestron systems. Focused on high-end custom residential systems. Complex whole house AV/ control integration, wireless networking, lighting system, and shade integration. I designed and program the custom interfaces to meet the customers needs based on the operations criteria.

Advanced Audio Video Location: Franklin, N.C.  
Position: AV technician and Programmer | From/To 2/1999 – 11/2000  
*Reason for leaving* - New job as a control system programmer  
*Specific duties* - I worked as a technician working on finishing the customer's contract. Setting up, operating, reviewing project documentation and installing audiovisual systems systems

## AMX / SVSI / BSS / Harman Certifications

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- **HCCP Control Professional Programming**
- HCCA Control Associated Programming
- HCCP Professional Design
- **Java Café Duet**
- HCCA Control Associated Design
- HCCP Control Professional Integration
- HCCA Control Associated Commissioning
- HCCA Control Associated Management
- HCCA Networked AV Associate Digital Signage

- HCCP Control Professional Commissioning
- SVSI Certified HCCP Networked AV Professional Commissioning
- **AMX Solutions Master (ASM) - ACE Certified Control Expert (ACE-E)**



- ACE-DS, ACE-I, ACE-P, ACE-RMS (control system design expert) /ACE RMS Enterprise Expert
- Expert AMX Integrated Solutions Certification (ACE-INT)



## Crestron Certifications

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- **Crestron Gold Master Certified Programmer (CMCP-G)**
- Crestron DigitalMedia Networking Certification **DM-NVX-N**
- **Pass Crestron SIMPL Sharp Pro Entrance Exam**
- Silver Master Certified Programmer (CMCP-S)
- Technical Institute Certified Programmer
- Certified Digital Media Engineer 4K – DMC-E - 4K
- DMC-E 4K (Certified Digital Media 4K Engineer)
- DM NVX Design and Commissioning



## AVIXA / Infocomm Certifications

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### QSC Certifications

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- Q-SYS Level 1
- Q-SYS Control 101
- Q-SYS Cinema Level 1
- Q-SYS Level 2
- Q-SYS Control 201



## Biamp Systems Certifications

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### Biamp Certified Master Programmer

- Biamp Certified Audia Programmer
- Biamp Certified Tesira Programmer
- Biamp Vocia Certified
- TesiraLUX Certified
- TesiraFORTÉ Certified



## ClearOne Certifications

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- ClearOne Pro Audio Technical Specialist
- ClearOne Media Collaboration Technical Specialist
- ClearOne Spontania Media Collaboration Technical Specialist

## Synergetic Audio Concepts (Synaudcon)

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- **Certified Synergetic Audio Concepts Audio Technician**
- **Sound Reinforcement For Technicians** (3-day class), Orlando, FL
- **Certified Digital Audio Designer** (3-day class) North Haven, CT
- **OptEQ Equalization Demystified** (3-day class), Orlando, FL



## Extron Certifications

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- Extron AV Associate Certification

## Microsoft Visual Studio / Live

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- **Visual Studio Live (Las Vegas )**
- **Visual Studio Live (Online 2020, 2021,2022)**
- **Dot-net Conference (Online 2018, 2019, 2020,2022)**
- **Visual Studio Live (Microsoft HQ Seattle )**
- **Visual Studio Live & Microsoft 360 (Orlando 2021 & 2022)**



## Apple Worldwide Developers Conference

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- **Online 2020, 2021 & 2022**



## Professional Expos Seminars

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### AMX, Crestron, Infocomm / AVIXA

- Management summit - Crestron: Preparing for the Network Generation, Audio and Video Streaming Using Established IP Standards, Crestron: UC - Solutions For Every Space, Network and Device Security in AV/IT Environments, Crestron: Virtual Control That Works, Beyond the Touch Screen: The Next Generation of UX, Designing AV Interfaces for Usability, Crestron: Connecting People, Space, and Technology: Scheduling and Digital Signage, Using a Mix-Minus to Optimize Meeting Room Systems

## Infocomm International / Cedia / HANA Courses

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- Infocomm International - **Facilities Design** - Fairfax, VA
- Infocomm International - Installation online
- CEDIA Installer Essentials Course
- CEDIA Designer Residential Boot Camp Course
- Home Automation & Networking Association (Electronic House Spring Expo)
- Infocomm International Show

## Biamp Courses

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- Audia Programming - Beaverton, Oregon
- Tesira Programming - Beaverton, Oregon
- Vocia Programming - Beaverton, Oregon
- Tesira Programming - Beaverton, Oregon
- TesiraLUX Certified Online
- TesiraFORTÉ Certified Online

## ClearOne Courses

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- Pro Audio course
- Media Collaboration

## Lutron Courses

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- Residential Interactive System
  - Advanced Residential Certification
  - Advanced Programming
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## Professional AMX Courses

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- Programming I
- Programming II
- **Programming III**
- Design (ACE-D)
- Installation Certification (ACE-I)
- Digital Signage Certification (ACE-DS)
- **Integrated Solutions Certification (ACE-INT)**
- Building **JAVA Modules** using **Café Duet**
- **Control Programmer II**
- **Signal Management**
- **RMS Configuration & Programming**
- TPD4 UI Design
- **Inspired XPress End User Operations**
- Network **and** Wireless Troubleshooting
- **Inspired Xpert**
- RMS Enterprise for Installers & IT Personnel
- RMS Enterprise for Administrators & Users
- RMS Enterprise for Programmers
- Enova Solutions Design & Implementation
- **ASM Integrated Solutions**
- DevCon **Advance Training** VIP
- Building **JAVA Modules** using **Café Duet**
- AMX Designer | Control System Design for AV Professionals
- AMX Installer | Control System Commissioning for AV Professionals
- Java Café Duet
- ND232: SVSI Designer - Networked AV Design for AV Professionals

## Professional Crestron Courses

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- SIMPL# and SIMPL#Pro training & certification (Rockleigh, New Jersey)
- DM NVX Design and Application (DM-NVX)
- Essentials of Crestron Programming
- Intermediate Crestron Programming
- Programming For Certification
- System Builder
- Crestron Masters
- Lighting Control System (D3-Pro)
- System Builder
- Digital Media Special Event Training
- Commercial System Design



- Digital Media System Design
  - Advanced System Builder
  - Lighting Control Systems
  - Digital Media DMC-D
  - Prodigy
  - Digital Media DMC-E
  - Digital Media DMC-T
  - Commercial Lighting Controls Certified (CLC-C)
  - Digital Media Road Show Seminar-Setting the Standard
  - SystemBuilder
  - Road Show Seminar for - New Products / Applications Preview and updated
  - Core System Programming - Featuring Crestron Studio
  - Core System Programming CTI-P201
  - Smart Graphics Training CTI-SG
  - Fusion Programmer (CTI-FUSION-P)
  - Advanced Programming Skills CTI-P301
  - DM 3.0 4K Road Show
  - Crestron DigitalMedia Networking Certification DM-NVX-N
  - How to Integrate and Maintain Crestron Systems
  - Crestron Certified Audio Technician
  - Avia Audio Solutions: DSP integration within today's professional system environment
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