

Christopher A. Harden

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OBJECTIVE: To R&D consumer/business products that call for Software Engineering skills in or near Tampa FL.

EDUCATION: Bachelor's of Electrical Engineering

Auburn University
2 years School of **Architecture** (Industrial & Graphic Design)
GPA 3.92/4.0 Suma Cum Laude

Graduated
December 98
Auburn, AL

MBA

University of South Florida
1.5 years into the program
GPA 3.92/4.0

Currently attending

- HONORS:**
- 4th Annual Business Department's Graduate Student Ethics Essay Contest 2nd Prize
 - Carolyn Scholarship Senior & Junior years; Ford Scholarship Sophomore year
 - Dean's List 12/15 Quarters.
 - IEEE Officer / Engineering Student Council Rep.
 - Societies: Tau Beta Pi, Eta Kappa Nu, Phi Eta Sigma, & Golden Key
 - Finalist for Most Outstanding Graduate of College of Engineering Winter '98

EXPERIENCE:

Alcorn McBride Inc Manufacturer of Audio, Video, Lighting, Show Control Equipment in Entertainment Industry Sept 1999 -current
Project Engineer (previously Design Engineer) (5.5 years)
Orlando, FL

- **Develop software and hardware products on a daily basis using Win32, C/C++**
- Develop DirectShow MCF & COM applications for Windows video server and apps.
- **Audio and Video Compression: Created HiDef and Standard Def MPEG2 video** according to ISO-13181 spec & MP3 and WAV audio content for testing/promoting products
- **All products created in teamwork environment of 6 engineers**, manufacturing managers, sales, and upper management
- **Develop Assembly and Test Procedures for Products**
- Instituted using Microsoft Visual Source Safe, Software Specification templates, and Software Release procedures for **Software Development Control**.
- Created **project development estimates** including milestones, man hours, for software projects.
- Develop & program embedded systems and applications using Assembly, C/C++, etc...
- Assisted in Hardware Design - schematics, FPGA layouts, troubleshooting, ...
- **Personally Responsible for shipping hardware and software products in volume production**
- Project Management (BOM's, prototypes, coordinating part vendors, & coordinating mfg)
- Develop Network media servers with Ethernet control: TCP/IP, UDP, web & FTP servers
- Develop servers to stream content from harddrive (HDD) with FAT, FAT32, or NTFS file management systems to televisions, projectors, or flat panel displays (via DVI)
- Technical Support – communicate continuously with worldwide distrib., dealers and customers
- Installed and programmed company gear in theme-parks, museums and retail chains

ADTRAN Manufacturer of Telecommunications Equipment

Design Engineer

- Learned ISDN, T1, HDSL, Packet-based communications protocols (Data Link layer)
- C programming for Intel i960, C & Assembly for IDT 3041, mainly with Motorola 68302
- Verified schematics, netlists, & BOM's

1.5 years
Huntsville, AL

P.L.U.G. Senior Design Company

Manufacturing **Design Team Lead**

6 months

- Managed team of five engineering students in developing clock/ thermometer product
- Programmed embedded micro-controller (Microchip PIC16C7X) for A/D conversion

Auburn, AL

The SouthWestern

Co. Sales Associate

1 Summer

- Managed my own door-to-door study guide sales business, working 72hours/week
- Made ~\$5,600 and spoke with over 2000 people before the summer ended.

Texas

Auburn University **Tutor and Residence Hall Advisor**

4 years

- Tutored in Calculus, Physics, & EE. Also supervised residence hall of ~100 students.

Auburn, AL

SKILLS: Software Fluency / Development Environments

Win32, MFC, C, C++, Object Oriented Design, Assembly, COM Fortran HTML, Flash, JavaScript, Perl, CGI-scripts, MySQL Windows '9x, NT, XP, LINUX, UNIX, DOS, and other proprietary operating systems

Direct Show 8, 9, DirectX apps, GUI development
Embedded XP/NT -Target Builder/Designer
Microsoft Visual Studio .Net, CodeWright, MultiEdit,
 Green Hills MULTI, Tasking Compiler, ChipWriter
 Multitasking and Single-task apps
 Microsoft Visual Source Safe
 FrontPage, Macromedia Flash 5.0

Hardware Familiarity

Intel 8086, 803x/805x family, 386EX, Intel Flash
 NOHAU 8031 Emulator packages
 IDT 3041 MIPS, Microchip PIC167xxx (MPLAB)
 Xilinx Spartan (FPGA) (Foundation Software)
 PC-based products with output cards
 O-Scopes, meters, other test equipment
 Horita Sync generators, DVM Video server,
 All Alcorn McBride Products and Software
 ST720 decoder, Zoran Vaddis, nVidia Gforce

Graphic Design/Illustration

Familiar with JPEG Lossy and Non-Lossy compression schemes

Corel DRAW! 9, Photo Paint, OCR Trace
 Adobe Illustrator 9.0, PhotoShop
 Tech/Non-tech Illustrations (Pencil, Ink, PC)
 Brainstorming/Concept Sketches
 2D Graphics & Web Site Development
 Ergonomic Design
 Product Renderings (Marker, PC)
 Understand many media file formats
 3D Studio Max

Audio/Video/Lighting Show Control Familiarity

Digital Imaging: MPEG1, MPEG2, Standard & Hi Def. specs. ISO13818/11172, JPEG formats

MP3 Encoding, WAV's, AC3 (Dolby Digital)
 Adobe Premiere & After-Effects, Ligos LSX Encoder
 PixelTools MPEG Repair & TransMux,
 MProbe MPEG Analyzer, Tsunami TMPEG
 NTSC, PAL TV signals, etc... S/PDIF apps
 DMX, MIDI, RS232, RS485/422, Discrete Control
 C-sync and Blackburst generation ,SMPTE Time Code
 TCP/IP, UDP, FTP, Telnet, etc...
 CoolEdit Pro 2.0, Sonic Foundry's SoundForge

Interpersonal Skills

Very comfortable communicating verbally with team members, customers, Managements, etc... on a daily basis via face-to-face and phone conversation, **and in written form** email, etc...

Office/Fiscal

Microsoft Office, Quicken 2000
 P.O.'s, Quotes, RMA's, Domes. & Int'l Shipping
 Domes. & Int'l travel for tradeshow, meetings

COMMUNITY: Salvation Army Toys for Tots Giveaways (Tampa)
 United Way's East Alabama Crisis Center & Valley View Nursing/Rehab Center (Huntsville)

REFERENCES: Steve Alcorn - Alcorn McBride Inc. - 407-296-5800
 Henry Corrado - Alcorn McBride France - 011-01-60-43-65-95
 Chris Steinwand - Atlantic Pro Audio - 407-865-5784