

Michael E. Joyner

5239 Town Line Rd., McGraw, New York 13101, Phone: 607.745.6412, E-mail: mjoyner@turkey-talk.com

Summary of qualifications

Outdoor industry professional providing value added product representation, seminars, marketing, and web publishing services. Manage workgroups (compensated and volunteer), Responsible for state level wildlife, education, and outreach programs (NWTF) as well as fundraising activities.

Conducted seminars for past 18 years throughout New York State, ranging from hunting, history, and biology of the wild turkey. Venues range from sportsmen's clubs, schools, convention seminars, sporting goods stores to nursing homes activity programs.

Veteran turkey hunter for 22+ years. Deer & small game hunting for 30+ years. Two wild turkey grand slams and a top twenty NWTF score gobbler in New York State.

Author of two turkey hunting books, with four new book projects underway. Age grouper marathoner & triathlete, 9 marathons, two time half-ironman finisher. Proficient publishing & computer skills including Microsoft Office, Adobe publishing suites, etc. Webmaster for several outdoor websites.

Professional Outdoors Experience

2005 – Present **President & CEO**

Joyner Outdoor Media, McGraw, NY: Publisher, book author, seminarist, webmaster.

Titles currently in print: Hills of Truxton (2005), Tales from the Turkey Woods (2008). Works in progress:

- Father & Son- A Life's Journey Together in the Turkey Woods,
- Empire Limb Hangers- NY Wild Turkey Records
- D.D. Adams- Evolutionary Turkey Call Pioneer
- Grand Days in the Turkey Woods

2013- 2014 **Prostaff, Product Rep**

P.E.D. Products, NY: camera products designed for adventure/extreme sports

2011- -2013 **Prostaff, Communications Director**

Forever Wild Outdoors: Rochester, NY: Prostaff, Seminarist, Webmaster & Communications for TV show & production company.

2008- 2013 **Prostaff, Product Rep, Seminarist**

Hevi-Shot, (WA) & Red Rock Thermals Apparel, (FL) 2006- 2009 Hunter Specialties/ Ludwikoski & Associates, (KY)

Professional Technical experience

Jan. 2013 - Present **President & Principle Engineer**

Town Line Technologies, LLC., Cortland NY: IC & PCB layout design services, testing services, program management, and consulting.

- 35 years of experience in the industry, extensive video background in consumer, medical, military, and machine vision markets,
- Prior experience in Vidicon / Plumicon Cameras, CID sensors & cameras
- 15 years designing CMOS image sensors with 40+ US and world wide patents.
- Currently servicing 10-14 yr rigid flex HD camera projects, large Xilinx / Altera BGA's, DDR2 etc. with 3g & 10g interfaces 3/3 & 4/4 rules. Mentor Pads ES suite of tools used for PCB design, Tanner EDA suite, Mentor Calibre for IC design

Sept. 1998 – Dec. 2012 **Co-founder, Imager Design & Layout Engineer, Program Manager**

Panavision Imaging, LLC., Homer NY (Orig. -Photon Vision Systems, acquired by Panavision Dec., 2002): CAE design CMOS image/camera products for high volume consumer products (100,000+ per month), high res 4XHDTV, high end motion picture (movie making), prosumer, military, and industrial applications.

Primary Management / Technical Duties:

- Program manager -sensor projects.
- CAD/CAE Department manger : Physical Layout- Silicon, PCB, Mechanical, other artwork/graphics
- CMOS Image sensor silicon design & layout, schematic entry. Full chip integration, Custom Analog, Develop / Review 3rd party PCB projects, and custom sensor packaging
- Assist in accessing customer requirements, feasibility, and specifications. Customer application support Marketing support- demo prep, graphics/artwork and trade show booth duties
- Documentation Manager, Sign off for engineering.

Professional memberships

- New York State Outdoor Writers Association- Active Member
- National Wild Turkey Federation- Gold Life member
- National Rifle Association- Life member, North America Hunt Club- Life member
- IPC Designers Council # 1021032:
- IEEE Member - #92567483
- SPIE Member - #350208

Patents

"A Video Bus For High Speed Multi-Resolution Imagers " July-8-2003 Patent: US 6,590,198

"A Video Bus For High Speed Multi-Resolution Imagers And Method Thereof" October-14-2003 Patents: (US) 6,633,029 (China) PCT/US01/02309 (European) PCT/US02/01864, PCT/US01/02309 (Japan) 2001-553588 (Taiwan) 90101651

"Scanning Image Employing Multiple Chips With Staggered Pixels" May-16-2006 Patent: US 7,045,758

"Solid State Imager With Reduced Number Of Transistors Per Pixel" June-6-2006 Patent: US 7,057,150

"Scanning imager employing multiple chips with staggered pixels" Oct-17-2006 Patent: US 7,122,778 Oct-31-2006 Patent: 7,129,461 June-30-2009 Patent: 7,554,067, EP1878215 B1

"Image Sensor ADC and CDS per Column" Mar-8-2011 Patent: US 7,903,159, CA2758275A1, CN102461158A, EP2417763A1

"Sub-Pixel Array Optical Sensor" Oct-11-2011 Patent: US 8,035,711

"Image sensor ADC and CDS per Column with Oversampling" May-1-2012 Patent: US 8,169,517, CA2758275A1, CN102461158A, WO2010117462A1

"Color Pixel Pattern Scheme for High Dynamic Range Optical Sensor" Nov-26-2009 Patent Application: US 2009/0290052 A1

"Increasing The Resolution Of Color Sub-Pixel Arrays" Jun-17-2010 Patent Application: US 2007/0149393 A1, EP2540077A1, WO2011106461A1

"Variable Active Image Area Array Sensor" Aug-25-2011 Patent Application: WO 2011106461 A1, US 2011/0205384 A, CA2790853 A1, EP2539854A1

"Image sensor adaptive column readout structure" Sep-14-2011 Patent Application: PCT/US2012/055575, WO2013040458 A1

Publications

"A CMOS video sensor for High Dynamic Range (HDR) imaging," 2008 42nd IEEE Asilomar Conference on Signals, Systems and Computers' Publication Date: 26-29 Oct.

"Broadcast quality 3840 x 2160 color imager operating at 30 frames/s," Proc. SPIE Vol. 5017-01. Jan 2003 Santa Clara, CA.

"Ultrahigh-speed CMOS scanning linear imager family," Proc. SPIE Vol. 4306 Jan 2001, San Jose, CA.

"CMOS sensors overcome bad image and early hype", Laser Focus World, July 1999, Penwell.

"1.5 FET per Pixel Standard CMOS Active Column Sensor", SPIE Vol. 3649-27, Jan 1999.

"Selectable One to Four Port Very, High speed 512 X 512 CID", SPIE, CCD and Solid State Optical Sensors Vol. 1447-18, February 1991, San Jose, CA.

"Hills of Truxton" ISBN 1-4196-0412-0 Apr. 2005 Booksurge publishing

"Tales from the Turkey Woods" ISBN 1-4392-0747-X Nov. 2008 Joyner Outdoor Media

"Syracuse Ironman 70.3 & Other Ironman Journey's" Blog syracuseironman.wordpress.com

Education

- Using Calibre, Mentor IC Layout/ Rule Writing - Mentor Graphics • Virtuoso XL Layout - Cadence
- Tanner EDA Tools 2000 - Tanner Corp
- IPC Certified Interconnect Designer - C.I.D., Certified 1999 C.I.D.+ Advanced Certification 2006
- AutoCad R13 - MicroCAD Managers • TQM ISO9000 - RIT
- Design Techniques for Controlling Radiated Emissions - University of Wisconsin-Milwaukee
- EMI Compatibility Design Practices, System EMC - University of Wisconsin-Milwaukee
- Grounding/Shielding for Electronic Instrumentation - Missouri Rolla College
- Geometric Dimensioning and Tolerancing - Shepherd Industries
- Undergraduate Study 1981-1983 - Onondaga Community College
- Math/Industrial Arts Major 1978 - North Syracuse High-School