

# Anthony Balducci

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 /AnthonyPBalducci

www.allpointsbulletin.info

## Education



**DeepLearning.AI** Jan 2024 - Present / In progress

- Deep Learning Specialization w/ Python (5 courses: Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models)



**HarvardX** Jun 2022 - Jan 2024

- Professional Certificate Program in Data Science (9 courses: R Basics, Visualization, Probability, Inference and Modeling, Productivity Tools, Wrangling, Linear Regression, Machine Learning, Capstone)



**Dartmouth College** 2018

- C Programming with Linux Professional Certificate



**MITx 6.004.1-3x Computation Structures** 2015

- Digital systems design from transistors → gates → finite state machines → hardware instantiation of Von Neumann architectures → OS design → memory management → assembly level compilers



**Harvard Extension School** 2010–2011

- Gen. Chemistry I, Gen. Chemistry II, Molecular and Cellular Biology, Evolutionary Biology



**University of Toronto** 2005–2007

- M.A. East Asian Studies - GPA: 3.5
- Completed Interdisciplinary Program in APAC Studies at the Munk Center for International Studies.
- Served on Budget Committee, Faculty of Arts and Sciences – Sole grad student representative



**Sichuan University, Chengdu, China** Spring 2005

- Chinese language study, Intermediate Level



**University of Massachusetts, Amherst** 2000–2004

- Graduated *cum laude* in four years with dual-degrees, a third major, and a minor.
- B.B.A. Finance + B.A. Philosophy - Third Major: Economics, Minor: Chinese - GPA: 3.71
- IT Club Member

## Professional Experience

**Mentor – Imperial College London: Global Challenge Lab • Online** July 2023

- Invited to return to work with students on U.N. Development Goal 7 innovating clean energy solutions.

**Mentor – Imperial College London: Global Challenge Lab • Online** July 2022

- Supporting and advising students innovating in an international challenge on U.N. Development Goal 13 developing novel solutions to prevent climate change.

**Independent Print Consultant – Lewis Brisbois, LLP • Multiple Locations** Jun 2021 – Present

- Contracted to serve as an 'Expert Witness' for pending Domestic and International litigation.
- Conducted on-site visits with the private client at their location in SC interfacing with Lewis Brisbois Lawyers, client Senior Management, Production Staff, and In-House Technicians.
- Performed a technical evaluation on two high-speed direct to fabric printers and dryers with a value totaling \$1.1m.
- Prepared a through multimedia report document outlining my findings and conclusions.

**Technology Services Support Specialist I CIP – Ricoh USA, Inc. • Los Angeles, CA** Jul 2018 – Sep 2019

- Continuous Forms high-speed industrial ink jet printing field service technician (IP5000GP / IP5000MP).
- Fully trained on the theory and fundamentals of the toner copy process and MP C6503 / MP C8003 series copiers.
- Performed maintenance and repairs on the Mimaki JFX200 line of UV flatbed printers.
- PC/MAC troubleshooting and network problem solving.
- Primary on-site tech for a major Fortune 500 company, as well as LADWP, and Sempra Energy.

**Technical Consultant – Graphics One, LLC. • Sun Valley, CA** Dec 2016 – Sep 2017

- In charge of pre and post-sales customer support, on-site installations, and training across North America.
- Collaborated with OEM product development teams on functionality, bug fixes, and hardware revisions.
- Supported dealer sales and marketing by providing product positioning and competitive market information.
- Participated in weekly webinars with OEMs and resellers aimed at improving sales and customer satisfaction.

**Engineering Lead Technician – Oyo Sportstoy, Inc. • Marlborough, MA** Oct 2015 – Nov 2016

- Experience in a fast paced startup environment.
- Thanks to my ability to service multiple platforms, the company was able to cancel a number of service contracts, including ITNH and Engineered Printing Solutions, resulting in substantial savings.
- Conducted on-going training of machine operators and fielded technical questions.
- Regularly supported senior engineering/management team with product development and design.
- Increased the performance of several machines including of one of our Spartan cartoner machines by 50%, though modifying several parts for an out-of-pocket cost under \$50.00. The end result was on-time delivery of for at least \$750,000 worth of orders, whose deadlines would otherwise have been missed.
- Designed and constructed an automated parts sorting machine for a total cost of under \$500.

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## **Technology Development Manager – Agency Systems Group, LLC. • Sterling, MA** Jan 2013 – Oct 2015

- Consulted and deployed custom hardware solutions for institutional clients such as Georgia State University, Savannah College of Art and Design, as well as numerous individual high profile artists and designers in respective digital print/textile fields.
- Selected to lead a new design development team on a novel product line for digital printing in conjunction with a major Asian print head supplier (an arrangement under non-disclosure).
- Custom PCB planning and design on a basic high-speed signalling design using KiCAD / Eagle CAD.
- Embedded firmware development experience in C/C++ for TI series MCU's.
- Tailored logic Verilog programming skills for Xilinx Zynq series FPGAs.
- Physical iterative part development and design, as well as quote sourcing, utilizing Autodesk Inventor 2015.
- Extensive supplier/source/sampling contact(s) along with the responsibilities of building a complete BOM and negotiating sourcing amidst various manufacturers based on both cost and 'product fit'.

## **Senior Lecturer/Student Advisor – Northeastern University • Boston, MA** Sep 2010 – Jan 2013

- Served as academic advisor to 70-90 students for four semesters in the American Classroom Program.
- Primary dept. liaison to the campus volunteer service program.
- Developed and implemented a web based student document management system.
- Earned NU online instructor certification and comprehensive training with Blackboard course software.
- Responsible for teaching and developing content for a broad course portfolio including fundamentals of business, economics, career management, academic writing, TOEFL test preparation, and special topics in science and engineering.

## **Product Development / IT Manager – Makki USA • Sterling, MA** Mar 2007 – Sep 2010

- Trade show planning and support both domestically (SGIA, ISA) and internationally (Febratex - Brazil).
- Designed and deployed the corporate website, on-line store, and product marketing materials.
- Intermediary to internal/external mechanical and electrical engineers to meet manufacturability and cost targets.
- Served as the primary technical support point of contact for field sales, resellers, and end users.
- Conducted hardware/software product training and installations including custom color profiling, site networking, and technology consulting solutions.

## **Teaching Assistant – University of Toronto • Toronto, ON** Sep 2005 – Mar 2007

- Discussion session leader for a year-long course in introductory micro and macro-economic theory.
- Taught three sections on the cultural and historical perspectives of China, Japan and Korea.

## **English Instructor – Mianyang Foreign Languages School • Mianyang, China** Aug 2004 – Dec 2004

- Full-time head foreign ESL teacher for a staff of seven, providing instruction for students 10 to 18 years of age.

## **Area Manager – Office of Information Technology, UMass • Amherst, MA** Sep 2000 – May 2004

- Managed a staff of 25 in the busiest computer lab on campus with 800 users daily.
- Directly involved in HR decisions including hiring, training, and conducting performance reviews of employees.

## Technical Skills

- |            |                |                      |                     |
|------------|----------------|----------------------|---------------------|
| • Adobe CC | • Verilog      | • SQL                | • Autodesk Inventor |
| • PHP      | • JavaScript   | • TensorFlow / Keras | • C/C++             |
| • Python   | • Embedded Dev | • R                  | • RStudio           |
| • HTML/CSS | • MATLAB       | • KiCAD              |                     |

## Community Involvement

- Achilles International guide runner and trainer for the disabled, 2013–2014.
- Volunteer in the Falmouth Road Race wheelchair logistics and support pavilion, 2013.
- Charity marathon runner/fund-raiser for World Vision bringing clean water to African children, Chicago '12(3:01)
- Dept. of Infection Control and Safety Volunteer – Health Alliance Hospital, Leominster, MA – Summer 2008
- Skills Building Volunteer – UN International AIDS Conference, Toronto – 2006

## Honors and Awards

- Service-Learning Classroom & Community Integration Award - Northeastern University - Fall 2011
- Senior Manager Award 2003 - 2004 for excellent service to the university community.
- Stephen and Sandra Levy Scholarship Award – 2003

## Professional Development

- Earned both Epsilon and Mimaki service designation as an on-site tech

## Language Skills

- Mandarin Chinese (Intermediate)
- German (Conversational)