

Adele Schwab

Berlin, Germany

German Citizenship Pending, U.S. Citizen

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Objective

I am a freelancer who runs her own full custom website development, design, and branding business. Our websites are visually stunning, ultrafast, appropriate to their audience, and operate with the best technology. I have been programming websites since 2004, and since making it my career in 2014 I have expanded to include specialities in marketing, branding, and search-engine optimisation strategy. Trilingual in English, German, and French.

Experience

- **Technology and Aesthetics Specialist, Founder** Berlin, Germany
OKDOKI Custom Website Development since Sep 2014
Taking on full responsibility for custom website development, design, and associated branding, our websites are visually stunning, appropriate to their audience, and operate with the best technology and without the use of templates. My goal is to deepen your company's individual brand through a professional online presence that fits you and your company perfectly. Key technologies include HTML5, CSS3, PHP, JavaScript, jQuery, MySQL, Python, Swift 2.0, C++, Adobe Photoshop, and Adobe InDesign. Private and corporate clients.
<https://www.okdoki.de>
- **Development Engineer - Control Systems, Nacelle** Dahlewitz, Germany
Rolls-Royce Feb 2009 - Sep 2014
Rolls-Royce Germany specialist for the aircraft engine Thrust Reverser Actuation System (TRAS), both hydraulically and electrically actuated systems, that are installed on new production aircraft and also for research. Tasks included development of system architecture, supervision of component design and test, system simulation modeling, requirements definition and management, supplier management, support of test and failure investigation, and failure tree analysis. Additionally coordinated engineering agreements between the test laboratories, suppliers, and FAA designated approval authorities. Worked for several years on the Gulfstream G650 aircraft project, the worlds fastest private jet with a flight range of the entire world. In 2014 I was nominated for the Rolls-Royce Global Trusted to Deliver Excellence Award.
- **Rolls-Royce Test Engineering Coordination Representative at GE** Los Angeles
GE Aviation Jul 2010 - Apr 2012
Development and supervision of the thrust reverser component tests for the G650 aircraft qualification program. Coordination of the supplier GE for two years, of which five months was on-site test facilities in the greater Los Angeles area.
- **Development Engineer - Control Systems, Nacelles** Dahlewitz, Germany
OSB-AG Engineering & IT Feb 2009 - Nov 2010
Subcontracted to Rolls-Royce.
- **Development Engineer Intern - Control Systems** Dahlewitz, Germany
Rolls-Royce Jun - Dec 2008
Internship at Rolls-Royce.

Physics Bachelor Thesis on an Atomic Clock below the Standard

- **Quantum Limit** Cambridge, MA
Massachusetts Institute of Technology, part-time Sep 2007 - May 2008

This project in the field of Quantum Optics and Quantum Computing aims to achieve time precision finer than that of atomic clocks by using the quantum entanglement of atomic transition. I aided in running the experiment and collecting data. Duties included laser stabilization, aligning of optical components, building of electronic control circuits for the system, and performing data analysis. Physics advisor Prof. Vladan Vuletic.
Thesis available at: <http://dspace.mit.edu/handle/1721.1/45338>

- **Teacher of High School Mini-Course on Light Physics** Weston, MA
Cambridge School of Weston Feb - Mar 2008

I taught a Physics of Light course that shares my passions for physics with high school students. Topics were the physics of rainbows, iridescence, fluorescence, optical illusions, solar power, fusion energy, and astronomy.

- **Quantum Optics Physics Research Intern, DAAD Scholarship** Berlin, Germany
Humboldt University of Berlin Jun - Aug 2007

This project in the field of Quantum Optics aims to create single photons of a linewidth on the scale of atomic resonances by using only a single nonlinear crystal. I performed laboratory work with the optical parametric oscillator used to generate the single photons via parametric down-conversion and with the interferometers used to read and write the time-encoded qubits.

- **Photography and Design Editor of Technique 2007** Cambridge, MA
Technique is the Yearbook of MIT, Club Aug 2006 - May 2007

Our publisher, Friesens, used this book as their example at the Premier Print Awards of the Printing Industries of America, winning the Benny Award for the printing and binding of this book.

- **Magnetic Form Factor of the Neutron Physics Research Intern** Cambridge, MA
Massachusetts Institute of Technology, part-time Jan - May 2007

This project calculates the magnetic form factor of the neutron for a new set of data taken with the BLAST experiment at the MIT Bates Linear Accelerator Laboratory. I performed data analysis of complex data sets using ROOT, a C-based programming language.

- **Nuclear Reactor Physics Research Intern, DAAD Scholarship** Garching, Germany
Technical University of Munich, FRM II Nuclear Facility May - Aug 2006

Working with the NEPOMUC positron group, which operates the highest intensity positron beam in the world sourced from the FRM II nuclear research reactor, I created a device to determine the width of the reactor's positron beam using two NaI detectors in coincidence. Phases of the project included design of parts in AutoCAD, C++ data simulation, assembly in the FRM II nuclear reactor, programming controls in LabVIEW, and instrument calibration using a Na-22 radioactive source. The device became a useful tool used by the research group for months afterwards.

- **Frustrated Kagome Lattice Physics Research Intern** Cambridge, MA
Massachusetts Institute of Technology, part-time Feb - May 2006

An analysis of heat capacity can provide much insight into the quantum spin structure of a lattice on atomic level. I used C++ to analyze thousands of heating curves under multiple magnetic field strengths for the structure under study.

- **Rainbow Volume Holographic Imaging Research Intern** Cambridge, MA
Massachusetts Institute of Technology, part-time and full-time Jan - Aug 2005
This project is part of the Optics Lab in the Mechanical Engineering Department. I helped to program and adjust the optical components of an infrared class 4 laser used to create detailed 3-D images of cell-sized translucent objects via constructive interference techniques.
- **Member of North Carolina team at ARML National Math Contest** Philadelphia, PA
ARML 2004 May 2004
Qualification as a result of medals won at state-level mathematics competitions.

Education

- **Massachusetts Institute of Technology** Cambridge, MA
Bachelor of Science Physics, June 2008 Sep 2004 - Jun 2008
 - cumulative GPA: 4.43 (/5.00 scale)
 - extensive additional laboratory experience in experimental physics and programming
- **East Chapel Hill High School** Chapel Hill, NC
Graduated Valedictorian; National Merit Scholarship Aug 2000 - Jun 2004