

KATHRYN A. MINDER

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Evanston, IL 60202
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www.kathrynminder.com

- OBJECTIVE** Experienced researcher and developer seeking a position in a semiconductor or optoelectronics field that will utilize my strong interdisciplinary skills that are inherent to the aggressive work environment of Northwestern University's Center for Quantum Devices.
- EDUCATION**
- Northwestern University* 2002-present Evanston, IL
- PhD candidate in Electrical and Computer Engineering Department at the Center for Quantum Devices (GPA 3.818/4.000)
 - Expected Graduation June 2007
- Northwestern University* 2000-2002 Evanston, IL
- Received Bachelor of Science in Electrical Engineering (GPA 3.545 /4.000)
- Penn State University* 1998-1999 University Park, PA
- Electrical Engineering Major (GPA 3.67/4.00)
- RESEARCH EXPERIENCE**
- Center for Quantum Devices (CQD)*
- Research Assistant* 2002-present Evanston, IL
- Specializing in III-Nitride semiconductor device processing and characterization
 - Processed and hybridized the CQD's solar-blind Focal Plane Array
 - Processed the CQD's record high power 280 nm, 265 nm, and 250 nm high power UV LEDs
 - Processed the CQD's record high quantum efficiency solar blind photodetector
 - Collaborated with Nanovation SARL to develop processing procedure for ZnO devices
 - Worked with other graduate students to maintain, troubleshoot, and repair CQD equipment
- HONORS / AWARDS**
- Motorola Fellowship (2003-present)
 - Walter P. Murphy Fellowship (2002-2003)
 - Member of Eta Kappa Nu, Electrical Engineering National Honor Society
 - On Dean's List and Completed Coursework with Honors, Fall Quarter 2000
 - On Dean's List at Penn State for all three semesters
 - Member of National Society of Collegiate Scholars
 - Awarded National Scholarship for Army ROTC
- PROFESSIONAL SKILLS**
- Communication*
- Give regular lab tours and research presentations for visitors of various technical backgrounds at the CQD
 - Maintained continuous two way dialogue through entire independent project through weekly presentations at engineering meetings while at Cherry Electrical Products
- Leadership*
- Mentored two summer interns and two graduate students at the CQD
 - Took responsibility for Base Stations and DIUs in Motorola Radio Network testbed
- Teamwork*
- Continuously collaborate with material growth graduate students in order to have an effective feedback loop within my research group
 - Directly collaborated with other developers to efficiently finish the project on schedule at Bluecoat
 - Worked in a team environment for building and testing of the Motorola Radio Network testbed
- Self Motivation*
- Have held several contract, work at home positions with no direct supervision
 - Self taught several programming languages

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TECHNICAL SKILLS

- Photolithography
- Materials Wet & Dry Etching
- Rapid Thermal Annealing
- Semiconductor Wafer Cleaning
- Electron Beam Evaporation
- Thermal Evaporation
- Plasma Enhanced Chemical Vapor Deposition (PECVD)
- Semiconductor Processing Mask Design
- Testing and characterization of LEDs, LDs and photodetectors
- Semiconductor wafer dicing
- Die bonding
- Flip-chip hybridization
- Origin / OriginLab Coding
- Linux / Unix
- Mac OSX
- Windows
- Word / Powerpoint / Excel
- PostgreSQL
- PHP
- Perl
- Visual Basic / VBA
- VI
- HTML

WORK EXPERIENCE

Bluecoat Systems

Contract Employee 2006-present Evanston, IL

- Assist in the development of a dynamically created web page of network statistics using data from an existing security appliance, identified by Blue Coat to be a major hole in their appliance feature list

Edward-Scott

Senior Developer 2004-2005 Evanston, IL

- Created a dynamic web page for downloading and uploading user files for a web-based English language learning system for crystalclearenglish.com
- Created a web based facilities management system for the State of Illinois

Motorola

Intern Winter & Summer, 2001 Schaumburg, IL

- Assisted in system integration and testing of a new version of Motorola's Radio Network System

Cherry Electrical Products

Intern Summer 2000 Waukegan, IL

- Proposed and implemented an organizational system for intra-office engineering documentation system