

# Gerard Desroches

## Education History:

- 1992 - BSc in Physics from Wilfrid Laurier University, Waterloo, Ontario, Canada
- Presently in final semester of MS Optical Sciences at University of Arizona
  - Did all other courses via distance learning through University of Arizona

## Employment History:

- 1993 – Present at ELCAN Optical Technologies
  - During this time, completed a 4-year optician apprenticeship At ELCAN
  - Trained on the following equipment:
    - Conventional polishers, grinders and milling machines
    - Synchro speed polishers, grinders and CNC milling machines
    - Worked with large variety of glass and optical crystals
  - After completing apprenticeship, 1997:
    - Helped to set up CNC glass asphere production line
    - Worked with Zygo interferometers, very familiar with MetroPro software
    - Comfortable using computer generated holograms for metrology
  - In 2000, accepted position of Diamond Turning Process Planner where
    - Planned jobs from raw material to final finished optic
    - Interfaced with Machine Shop, Toolroom, Surface Treatment, Diamond Turning and Coating Departments in order to complete jobs
    - Called upon to advise in manufacturing of customer optics in order to use best processes and preferred processes
    - Designed and ordered working fixtures for various departments mentioned
  - Mid-2001, accepted a position in Optical Design where I've been ever since
    - Work with Code V Primarily, but also Zemax and ASAP
    - Design optics to customer specifications
    - Interface with production staff in order to troubleshoot problems
    - Interface with customers on various issues

## Other Experience:

- CNC programming – lathes and milling machines
- Use SolidWorks, Mechanical Desktop, Inventor and AutoCad
- Have used MathCad and Mathematica
- Use Taly-Surf profilometer and other various measurement tools in optics shop

## My goals for this class:

Learn to use other machinery that I haven't used and gain a further understanding of the machinery that I'm more familiar with. Use information gained in this class to help finish sections of my thesis by properly explaining theory and measurement techniques. Having the opportunity to see and experience new things in this class and in the lab will prove invaluable later in my career.