KRISTOFF A. MALEJCZUK

Bachelor of Applied Science in Nanotechnology Engineering
University of Waterloo, 2014 – 2019

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WORK EXPERIENCE

Camera Systems Engineer
Apple Inc.

Cupertino, California
May 2019 – present

- Constantly improving iPhone's mass production calibration and test strategy via data-driven decisions
- Scripted simulation tool enabling large-scale analysis and calibration of Monte Carlo camera systems
- Developed calibration approaches to minimize depth and disparity errors in stereo-camera system

Camera Hardware Design Engineer
Apple Inc.

Cupertino, California
Jan 2018 – Aug 2018

- Developed new camera assembly technique for use at module integrator
- Conceived, designed and built test setup for camera alignment; familiar with NX CAD software
- Validated and furthered development of a distortion-based camera calibration system

Materials and Process Engineer
Optotune AG

Zurich, Switzerland
Sep 2016 – Apr 2017

- Optimized process steps of liquid-filled tunable lens production; extensive cleanroom experience
- Developed new elastomer dispensing method, increasing process speed by more than 50%
- Worked with lens characterization, optical microscopy, plasma bonding, elastomeric materials

Quantum Farming
University of Waterloo, Prof. Roydon Fraser

Waterloo, Ontario
Jan 2016 – Apr 2016

- Performed IR imaging of plant systems to develop thermodynamics-based agricultural methods
- Developed novel algorithms for engineering computation, data processing and 3D modeling

Biointerface Analysis
McMaster University, Prof. Kathryn Grandfield

Hamilton, Ontario
May 2015 – Aug 2015

- Assessed suitability of titanium alloy dental implant for real-world applications
- Developed X-ray tomography imaging protocol; designed ex vivo compression testing experiment

LABORATORY EXPERIENCE

- **Optics:** Zemax; camera characterization; optical distortion; test chart design; diffractive optical elements
- **Electronics:** oscillator circuit design; transistors; op-amps; filters; buffers
- **Materials** (TGA, DSC, XRD); **Spectroscopy** (UV-Vis, FT-IR, Raman); **Microscopy** (SEM, AFM, X-ray)

SKILLS AND INTERESTS

- **Programming:** Python, MATLAB, C++
- **Languages:** French, German, Spanish, 中文

- **Tools:** git, bash, NumPy, pandas, LaTeX
- Orchestral music; bassoonist and pianist