Anna Verkhovskaya

verkhovskaya.anna@gmail.com

annaverk.com

EDUCATION

BACHELOR OF MECHATRONICS ENGINEERING | University of Waterloo | 2B | 2016 - 2021

EXPERIENCE

GOOGLE | Software Engineering Intern
May 2018 - August 2018

- Was part of the team working on the recently released Smart Display product
- Worked across the entire tech stack to integrate a YouTube feature
- Used Python, C++, and JavaScript

IMAGINE COMMUNICATIONS | Hardware Design Intern
September 2017 - December 2017

- Worked as part of a large team on the Selenio™ Network Processor
- Used VHDL on an FPGA that managed video over a 100-Gigabit ethernet connection
- Personally built two major FPGA subsystems, one for re-routing video and one for filtering PTP packets

UNIVERSITY TECHNOLOGIE DE COMPIEGNE | Prototype Design Intern
January 2017 - April 2017

- Designed and built a system for 2D tracking of a magnet array using hall sensors
- Created a model in Python to optimize sensor placement
- Achieved accuracy of around 0.1mm with no calibration

UNIVERSITY OF CALGARY LABORATORY OF QUANTUM INFORMATION | Assistant
Nov 2014 - April 2016

- Assisted with laboratory equipment, including soldering circuits and assembling lasers
- Built a laser system that could measure sound off of paper at a 5m distance

PROJECTS (MORE AT ANNAVERK.COM)

GO WITH THE FLOW | Best Overall, Best Machine Learning at HackPrinceton 2017
(team): A machine vision project that analysed the flow of moving objects in a video. Demo application monitored intersections to optimize traffic control. Written using the YOLO-9000 object recognition library and Python.

3DRAW | Finalist at TreeHacks 2018 (Stanford)
(solo): A project for interactive 3D modelling. Light sensors track a pen through space, and the pen's path is recorded, then turned into a printable model.

PYCAD | Personal project, can be seen at http://pycad.xyz
(solo): A Python library and UI for basic programmatic CAD. Originally written as a tool for creating a hatched chess set.