

# Stefan Nestorovski

Electrical & Software Engineer

stefan.nestorovski@gmail.com  
(647) 772-8218  
snestoro.com  
github.com/StefanNestorovski



## WORK EXPERIENCE

### Software Developer

National Research Council Canada – Herzberg Institute of Astrophysics (NRC – HAA)

Sept 2020 – Present

- Built monitoring systems for embedded devices on the Square Kilometer Array (SKA) project, an international effort to build the world's largest radio telescope
- Corresponded with international teams to develop better internal software for GUI design

### Undergraduate Research Assistant

Center for Intelligent Antenna and Radio Systems

May 2020 – Aug 2020

- Configured radar imaging system to process and transmit data in real-time, designed for use in autonomous vehicles
- Used processor SDK built on top of RTOS to transmit and process data efficiently with MATLAB post-processing

### Full-Stack Developer

Nanoleaf

Sept 2019 – Dec 2019

- Created a stress-testing application to evaluate scalability of MQTT communication – led to 50% increase in load capacity
- Led multiple projects for smart home integration and held weekly meetings with Google Smart Home development team
- Experimented with implementing “clapper” functionality to Nanoleaf light panels in C using Fast Fourier Transforms

### Software Developer

Ground News

Jan 2019 – Apr 2019

- Full-stack development on a 2-person team, used MySQL, Elasticsearch, Node.js, and Vue.js on a day-to-day basis
- Key contributions: “Trending News”, automated image search script, multi-device handling support

### QA Analyst

FleetCarma – Division of Geotab

May 2018 – Aug 2018

- Played a critical role in developing algorithm for pairing electric vehicles to charging stations
- Gained a strong understanding of relational databases, documenting, presenting, and running automated tests using Selenium, Terraform, and Runscope

### QA Specialist

RouteThis

Sept 2017 – Dec 2017

- Gave numerous ideas to further develop the QA position's duties at this start-up
- Commended for strong understanding of product and providing effective solutions for improved UX

### Systems Integrator

Manulife Financial

Jan 2017 – Apr 2017

- Worked with Unix servers & gained an understanding of the fundamentals of DevOps
- Presented innovative “health and wealth” lifestyle app idea to over 40 Manulife executives

## EDUCATION

### University of Waterloo

2016 – 2021

Bachelor's of Applied Science in Electrical Engineering

## PROJECTS

### Electrical/Controls Engineer

WatSub (Waterloo Submarine Team)

- Worked on embedded systems in Arduino, designed framework for IMU and graphics
- Learned and applied device communication protocols like UART, I2C, and SPI

### Senior Design Winner

Waterloo Engineering Competition (2019)

- Built and designed a working solution to a robotics challenge using an Arduino and raw materials in 6 hours
- Awarded \$800 and advanced to provincial-level competition

### Developer/Creator

Saber

- Developed Android/PC integration application to have user's phone control their computer wirelessly through phone sensor data

### Developer

Miscellaneous Projects

- Wrote script to intelligently place over 400 students into workshops for local non-profit
- Created simulations of algorithms found in nature and games (ex. A\*, Boid's algorithm, fire, cellular automata, bacteria growth)
- Designed satirical “fake news” testing website

## SKILLS

**Versatile:** Worked in large companies and small start-ups at various levels of the software pipeline

**Adaptable:** Works well both independently and in large teams; excels at agile development

**Out-of-the-Box Thinker:** Provides creative ideas and solutions to problems

### Languages

- |              |          |            |
|--------------|----------|------------|
| • JavaScript | • Python | • MATLAB   |
| • SQL        | • C++    | • HTML/CSS |
| • Java       | • C#     |            |

### Tools

- |            |           |               |
|------------|-----------|---------------|
| • Node.js  | • Postman | • Git – CI/CD |
| • Selenium | • Linux   | • MQTT        |
| • Mongo DB | • Docker  | • Unity3D     |