

Jason Barmmparesos

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Warsaw, Poland & Remote • Résumé current as of October 17, 2020

Skills

Programming Languages	C++ , Rust, Julia, Elm, Python, Fish, Bash, HTML/CSS/Javascript
Collaboration	Git & GitHub, Pandoc, L ^A T _E X, Jira ,IRC/Slack
Frameworks	CUDA, HIP, OpenCL, OpenGL, Qt 5, GTK+
Languages	English, Greek, conversational Polish and Norwegian (bokmål)

Academics

Aristotle University of Thessaloniki, *Thessaloniki, Greece* 2015 - 2021 (expected)
5-year engineering diploma, MSc equivalent. Electronics & Computers Track. GPA: 8.1/10

Politechnika Warszawska, *Warsaw, Poland* 2020 - 2021
Erasmus+ exchange. Winter Semester 2020. Faculty of Electronics & Information Technology.

Employment

Arm, *HPC Tools Summer Intern – Warwick, UK* 07/2018 - 09/2018
Worked as a developer in the Arm Forge team, mostly maintaining C++ code, fixing bugs and implementing new features, all in an agile environment.
Developed HPC benchmark applications with MPI and OpenMP.
Developed the foundations for a test framework in Python.
Wrote a Python script generating an issue heatmap for each source code file using the JIRA API.

Notable Open Source Contributions

AMDGPU.jl github.com/JuliaGPU/AMDGPU.jl — An effort to run Julia code on AMD GPUs. Wrote extensive documentation. Rewrote the memory module and implemented page-locking and querying pointer information. Skills: Julia, GPUs, HIP, LLVM

Notable Side Projects

SoundTouch Accessible tree-structured navigation for the visually impaired. Arranges items on a grid and provides audio feedback in response to mouse pointer motion. Won 1st prize in the Accessibility Hackathon held in Athens, Greece, May 2017. Skills: C++ , Qt 5

Ilma CFD Lattice Boltzmann Method (LBM) solver accelerated with OpenCL. Skills: C++ , OpenCL

rScheme github.com/NorthSailor/rScheme — Interpreter for a subset of Scheme written in Rust.

SpaceAda github.com/NorthSailor/SpaceAda — LLVM compiler for a small subset of Ada in Rust.

Awards

European BEST Engineering Competition, *Local Round – Thessaloniki, Greece* .. 12/2018
Received 1st prize for designing a hurricane shelter for the population of Thessaloniki using the subway tunnels. Presented a full study of the construction cost and time.

Eugenides Foundation, *Accessibility Hackathon, UTechLab – Athens, Greece* 05/2017
Received 1st prize for developing SoundTouch, as described in the “Notable Side Projects” section.

Volunteer Experience

Aristotle Space & Aeronautics Team, *Lead Rocketry Systems Engineer* 2016 - 2018
Led a team of 3 other engineers. Organized and distributed tasks to team members. Worked on: electronic flight recorder, parachute, electromechanical parachute deployment system, flight dynamics simulation model.
Skills: C/C++, AVR, Qt, MATLAB, Simulink, CAD, Autodesk Fusion

Co.Mv.Os, *Graphic Designer* 2017 - 2018
Student group networking students with businesses. Designed promotional material for the group and its events (e.g. posters, leaflets).