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Shreyas Vinod

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Synopsis

I revere the indefinite complexity of the universe and the human mind. I am on a quest to understand neural networks and their silicon counterparts with an inquisitive passion for engineering and robotics and a strong admiration for the field of Computer Science as a whole. Understanding what gravity does is uninteresting. How and why – on the other hand, must be beautiful.

Professional

cthings.co sp. z o.o. sp. k. internet of things

Jul 2017 - present

Chief Technology Officer

- key decision-maker for technology;
- team lead and project manager for a group of talented engineers;
- design, manufacturing and testing of embedded hardware;
- firmware integration for the said hardware;
- programming in embedded C/C++ and Python; and
- working with bleeding-edge technologies such as NB-IoT.

Students Underwater Robotics Association

Mar 2016 - present

Electronics Engineer

- pcb design and firmware for complex multi-microcontroller systems; and
- all-round mechanical integration and engineering.

HostUS Solutions LLC web-hosting services

2012 - 2013

Systems Administrator during the company's genesis

Academia

Politechnika Warszawska, Warsaw, PL

2015 - 2018

B.Sc., Computer Science GPA: 4.4/5.0 (two years completed)

Programming

C (embedded/POSIX); C++; Python; Verilog; MATLAB; and Java.

TECHNOLOGIES AND SKILLS Altium Designer; Atmel Studio; NB-IoT; BLE; ARM; AVR; linux server management (nginx, OpenVPN, MySQL, etc.); Arduino; Espressif ESP; Raspberry Pi; 3D printing; component pick-and-place; solder reflow techniques; etc.

Noteworthy Personal Projects Elise control automation for ROVs and multirotors on embedded platforms ongoing

- smart point-of-load power management pcb design;
- firmware for multi-microcontroller pcb;
- custom simple priority task handler RTOS;
- inertial PID controller design and firmware; and
- self-stabilisation and movement algorithms.

Cortex fast and lightweight bitboard UCI chess engine in C++ December 2014

- Minimax with alpha-beta pruning and quiescence search;
- uses processor-native 64-bit integers, or 'bitboards';
- GCC's low level pre-built functions: incredibly fast move generation;
- search efficiency using heuristics such as MVV-LVA and null move pruning;
- Zobrist hashing and transposition tables for efficient search;
- Universal Chess Interface (UCI) GUI protocol supported; and
- future exploration of genetic evolution of evaluation.

Neptune 16-bit custom RISC microprocessor in Verilog

October 2013

• originally designed on a Xilinx Spartan 6 FPGA;

- microcoded by hand atop a custom MIPS-like architecture;
- handmade serial display segments with custom protocols;
- human-readable instruction set; and

• intended to teach introductory assembly to fellow students.

NOTEWORTHY MISCELLANEOUS An Introduction to Interactive Programming in Python

November 2014

Rice University on Coursera, 100%

INTERESTS Artificial Intelligence; machine learning; behavioural psychology; philosophy; chess; writing;

algorithmic, mathematical thinking; and curiosity with a passion

FEATURED BLOG POSTS The Singularity is Boring

The Egocentric Predicament: The Bad and the Atrocious

LINGUISTICS International English Language Testing System (IELTS) November 2014

Reading: 9.0 Listening: 9.0 Writing: 7.5 Speaking: 8.5 Overall: 8.5

Others: Hindi; Malayalam; and Marathi

Links LinkedIn shreyasvinod

Personal Born 19th December, circa. 1997 Nationality Indian

Indentation Two spaces, or matching an existing project. Preferences