Yordan Madzhunkov

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"Creativity is intelligence having fun"
Albert Einstein

I am looking for a good manager of a highly paid team that is solving interesting problems for real people. I have strong background in math and physics. I have 9+ years of experience with C++. I value well crafted code. For me responsibility is always personal.

Education

Master of Science in Simulation Sciences		2011–2013
Rheinisch-Westfälische Technische Hochschule		Aachen, Germany
Bachelor of Science in Physics		2006–2010
University of Sofia "St. Kliment Ohridski"		Sofia, Bulgaria

Top Employers

Software Developer — 2014–2016
Chaos Group — Sofia, Bulgaria

- Optimized V-Ray hair shading
- Improved CMake build system
- Improved precision in Embree and V-Ray
- Integrated Embree library in V-Ray ⇒ 10% better render times
- Improved Embree hair intersection
- Involved in company public image

Gained experience: C++, algorithms, multithreaded, computer graphics, CMake, code reviews, git, intrinsics, refactoring, unit tests

Algorithm Developer — 2011–2014
Rheinisch-Westfälische Technische Hochschule — Aachen, Germany

- Implemented parallel SVD
- Image processing algorithm
- Automatic collection of data from simulations on Blue Gene/Q

Gained experience: C++, multithreaded, MPI, computational algebra, raytracing, git, LaTeX, mathematical optimization

Algorithm developer — 2010–2011
MM Solutions — Sofia, Bulgaria

- Developed algorithms for digital video stabilization project

Gained experience: C++, image processing, pattern recognition, statistics beyond the university level

Student Research Assistant — 2006–2010
Dosimetry and Rad. Protection, Sofia University — Sofia, Bulgaria

- Co-author of 9 papers
- Developed software for automation of experiments
- Gathered, analysed and visualized data from Monte Carlo simulations on supercomputers

Gained experience: C/C++, Pascal, Fortran, Linux, Monte Carlo, High Performance Computing

Favorite programing environment

C++, CMake, GNU/Linux, vim, clang, gcc

Adopted Development Practices

Test Driven Development	Code Reviews
Continuous Refactoring	Style guide
Continuous Integration	Testing

Top 4 Awards in Physics

year	award	Competition
2006	Silver Medal	Intenational Physics Olympiad, Singapore
2006	Laureate	National Olympiad
2006	I	Special Class, Plovdiv
2005	I	Special Class, Ruse

Top 4 Awards in Informatics

year	award	Competition
2006	Laureate	National Olympiad
2005	II	Class B
2003	I	Class B, Yambol
2007	II	codeit (MusalaSoft)

Conferences

Code for Art 2016 - Test Driven Development
Code for Art 2015 - Monte Carlo Method
Code for Art 2014 - Embree in V-Ray

Top 3 Scholarships

2011 - DAAD Master degree in Germany
2009 - Development of egs_pet code
2006 - Evrika Foundation - Medal IPhO

Languages

Bulgarian	Mothertongue
English	Fluent, TOEFL 107/120