

Algorithms Student

The position

The Algorithms teams in Mobileye Haifa is looking for an excellent student to join a team of talented engineers on cutting edge technologies towards the next revolution of autonomous vehicles & driving assistant products.

You will be involved in designing and developing Algorithms in C++ / Python and researchers in the computer vision, image processing, analytical geometry and deep learning field.

All you need is:

- Studies towards B.Sc. in Computer Science\Engineering.
- M.Sc. or Ph.D. - advantage
- Background in Computer Vision, Image processing and Deep Learning knowledge is an advantage
- Ability to work independently and quickly learn new technologies and systems
- Ability to work at least 20 hours a week in regular business hours
- Experience in programming outside of university studies - an advantage

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Algorithm Developer

What will your job look like:

- Your job will include a combination of classic programming and algorithm development
- You will develop in both C++ and python
- You will need to both maintain the product and develop new features
- Finally, you will need to learn and develop new algorithms which can address new problems as they arise

All you need is:

- B.Sc. in Mathematics, Physics, or Computer Science
- Proven ability to solve complex problems
- Advanced degree (M.Sc. or Ph.D.) – advantage
- Experience in development in C++ – advantage
- Experience in Python and NumPy – advantage
- Experience in statistical estimation – advantage

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Software Engineer

About us:

Our group is the world leader in automotive and driving assistance systems, developing the world's most advanced software technologies and hardware architectures.

Our team is responsible for development Mobileye's platform software including optimized low-level firmware, middleware software, compilers and tools

The development environment is mostly based on C/C++ programming within the deep learning and computer vision domains.

As we are part of the end-to-end autonomous vehicle flows we get to see our code running in the most advanced algorithms and use cases which are developed both by Mobileye and by our customers.

What will you do?

- As a software engineer you will design, develop and optimize autonomous vehicle related features and tool targeting current and future Intel architectures based on internal and external customers' demands.
- You will leverage state of the art algorithms from the fields of DL, Computer Vision, sensor fusion and path planning.
- You will be designing and implementing code related to advanced features for the parallel programming and AI domain.
- You will also be working on performance analysis and tuning, with opportunity of influencing future Mobileye processors and open source communities as well as proprietary languages for the autonomous driving domain

Qualifications

- BSC/ MSc in Computer-Science, Computer Engineering or related field
- Experience with C/C++ programming

Advantage:

- Low level/FW/embedded SW development experience
- DSP/GPU/SIMD programming experience
- Deep learning, computer vision, or image processing background.
- Good understanding of computer architecture and operating systems.
- Experience in optimizing applications and performance tuning

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SW/FW Developer for Deep Learning and Computer Vision Optimization

Which department will you join?

Our team develops Hardware specific optimized Firmware building blocks for deep learning, computer vision, and sensor fusion applications that must be super-efficient to run in the autonomous vehicle.

The development environment is mostly based on C programming with extensions. Our work requires expertise in low-level optimized firmware development and exposes the developer to the deep learning and computer vision world. As we are part of the end-to-end autonomous vehicle flows we get to see our code running in the most advanced algorithms and use cases which are developed both by Mobileye and by customers.

What will your job look like?

- As a software engineer you will design, develop, test and optimize autonomous vehicle relevant functions, based on internal and external customers' demands.
- You will write highly optimized code for specific processors and HW accelerators
- You will leverage state of the art algorithms from the fields of ML/DL, Computer Vision, sensor fusion and path planning



- You will analyze autonomous vehicle relevant workloads, and recognize potential bottlenecks and suggest improvements to enhance performance.
- You will work closely with algorithm developers to define the optimized flow.
- You will work with the rest of the software team to get your code to run in the full flow on simulators as well as real silicon.
- As part of your work you will also develop and work with infrastructures designed to test our code

All you need is:

- BSc degree / MSc in Computer Science
- Great people and communication skills

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