

# Asif Bayer

Algorithm Developer & Builder

Specialized in deep learning and full-stack AI innovation — with a track record of taking research from paper to production at scale.

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## SKILLS

### Machine Learning

- PyTorch
- TensorFlow
- NumPy
- Pandas
- Object Detection
- Transformer Architectures

### Engineering

- Python
- C++
- Cloud Infrastructure
- Scalable Neural Network Training
- Statistical Validation

### Product & Design

- Full-Stack Development
- Synthetic Media Pipelines
- Photoshop
- Blender
- Video Motion Graphics

## EDUCATION

**B.Sc. Computer Science**  
Hebrew University of Jerusalem  
2018 – 2021  
GPA 92

## LANGUAGES

Hebrew – native

English – fluent

Chinese – intermediate

## EXPERIENCE

### Algorithm Developer Technical Lead

Mobileye 2023 – 2025

- Strategic Leadership:** Orchestrated the technical evolution of a pilot program into a major company initiative, scaling the project to a 15-member cross-functional team.
- Mentorship & Growth:** Defined technical strategy, spearheaded hiring processes, and provided high-level mentorship while maintaining a culture of core research innovation.
- Execution:** Ensured critical project milestones by maintaining a hands-on approach to developing and deploying advanced perception features.

### Algorithm Developer

Mobileye 2020 – 2023

- Core R&D:** Developed real-time object detection algorithms for autonomous vehicle systems, bridging the gap between state-of-the-art academic research and production-grade performance.
- End-to-End ML:** Owned the full machine learning lifecycle, including data curation, model training, cloud-scale validation, and high-performance C++ deployment.
- Innovation:** Pioneered the organization's initial experiments with transformer-based object detectors, significantly influencing the technical roadmap.

### Graphics Engineer

Wochit 2018

- Automation:** Engineered automated video graphic packages utilizing Python and SQL, reducing manual workload across multiple departments.
- Tooling:** Developed internal automation tools that were adopted as the standard workflow for creative teams.

### Intelligence Analyst

IDF — Intelligence Tech Research Division 2014 – 2017

- Strategic Analysis:** Conducted deep-dive technological research to inform high-stakes decision-making for senior officials.
- Communication:** Synthesized complex data into concise, actionable intelligence reports under rigorous timelines.