Name: Andrey Zhitnikov **Date: 16.11.2026**

CURRICULUM VITAE

1. Personal Details

Permanent Home Address: Aliyat Hanoar 9 Kiryat Shmona

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2. Higher Education

A. Undergraduate and Graduate Studies

Period of Study	Name of Institution and Department	Degree	Year of Approval of Degree
2020-2024	Technion Autonomous Systems Program (TASP)	Ph.D.	2024
2014-2018	Electrical Engineering, Technion	M.Sc.	2018
2010-2014	Electrical Engineering, Tel Aviv University	B.Sc.	2014

B. Post-Doctoral Studies

Period of Study	Name of Institution, Department and Host	Degree	Year of Completion
2025-2026	Technion, Electrical Engineering, Prof. Kiril Solovey	Post-doctorate	2026
2024-2025	Technion, Aerospace Engineering	Post-doctorate	2025

3. Scholarships and Prizes

2025 – Viterbi Postdoctoral Fellowship

4. Teaching

Year	Name of Course	Type of Course Lecture/Seminar/ Workshop/High Learn Course/ Introduction Course (Mandatory)	Degree	Number of Students
2018-2024	VISL, SIPL projects	Project supervisor in VISL and SIPL research labs, electrical engineering	undergrade	
2020-2024	ANPL projects	Project supervisor at ANPL research lab, Technion autonomous systems program (TASP)	undergrade	
2020.10-2022	"Image and Video Compression", undergraduate lab Electrical Engineering 2,3, Technion	Instructor of experiment, Hebrew	undergrade	
2020-2024	"Autonomous Navigation and Perception", graduate course 086762	Teaching assistant at course, Hebrew	graduate	
2019-2024	"Computer vision", undergraduate lab Electrical Engineering 2,3. Technion	Instructor of experiment, Hebrew	undergraduate	
2018.3-2020	"Medical Imaging", undergraduate lab Electrical Engineering 2,3	Instructor of experiment, Hebrew	undergraduate	
2014-2017	Electrical Engineering 1, course number 44160, Technion	Instructor at undergraduate lab, Hebrew	undergraduate	

5. Professional Experience

2018-2020. Computer vision and machine learning researcher, Blink Technologies Incorporation.

2017-2018. Machine learning engineer, Sanolla - Smart Diagnostic Solutions.

2017.02-2017.06. Lab engineer at SAMPL Lab, Technion

2012-2014. VLSI student position, CEVA-DSP

PUBLICATIONS

A. Ph.D. Dissertation

A. Zhitnikov, "Simplification for Efficient Decision Making Under Uncertainty with General Distributions," PhD thesis, Technion - Israel Institute of Technology, 2024.

The thesis has been written in English under the supervision of Prof. Vadim Indelman. This thesis led to 5 journal papers, 4 are already published and one is in the resubmission process

B. Articles in Refereed Journals

Published

1. G Naitzat, **A Zhitnikov**, LH Lim, "Topology of deep neural networks". JMLR - Journal of Machine Learning Research, 2020

2. **Andrey Zhitnikov**, Vadim Indelman, "Simplified risk aware decision making with belief dependent rewards in partially observable domains". Elsevier - Artificial Intelligence, 2022 (flagship journal in artificial intelligence)

This work was presented via **oral** presentation **by me** in IJCAI 2023, a flagship conference in AI - journal track Video – IJCAI 2023.

3. **Andrey Zhitnikov**, Vadim Indelman, Simplified Continuous High Dimensional Belief Space Planning with Adaptive Probabilistic Belief-dependent Constraints. IEEE Transactions on Robotics (T-RO) 2023 (flagship journal in robotics)

This work was presented via **oral** presentation **by me** in ICRA 2024, a flagship conference in Robotics - journal track.

4. **Andrey Zhitnikov**, Ori Sztyglic, Vadim Indelman, No Compromise in Solution Quality: Speeding Up Belief-dependent Continuous POMDPs via Adaptive Multilevel Simplification, International Journal of Robotics Research (IJRR) 2024. (flagship journal in robotics)

5. **Andrey Zhitnikov**, Vadim Indelman, Anytime Probabilistically Constrained Provably Convergent Online Belief Space Planning. (T-RO) 2025. (flagship journal in robotics)

C. Articles in Conference Proceedings

Published

1. K. V. Mishra, **A. Zhitnikov** and Y. C. Eldar, "Spectrum Sharing Solution for Automotive Radar", IEEE Vehicular Technology Conference (VTC) - Spring, June 2017. Rank B (research track and released in proceedings)

2. **A. Zhitnikov**, R. Mulayoff and T. Michaeli, "Revealing Common Statistical Behaviors in Heterogeneous Populations". International Conf. on Machine Learning (ICML 2018),(oral and poster, **both were** presented **by me**) A* (flagship) (research track and released in proceedings)

3. Avishav Engle, **Andrey Zhitnikov**, Oren Salzman, Omer Ben-Porat, Kiril Solovey, Effective Game-Theoretic Motion Planning via Nested Search. WAFR 2026. (oral)

D. Submitted Publications

Andrey Zhitnikov, Vadim Indelman, Risk Aware Adaptive Belief-dependent Probabilistically Constrained Continuous POMDP Planning. Submitted to AIJ.