

Georgios A. Konstantopoulos

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EDUCATION & SKILLS *M.Eng. Electrical and Computer Engineering*, Aristotle University of Thessaloniki, School of Engineering, Thessaloniki, Greece, 2013-2018
Thesis: Decentralized Metering and Billing of Energy on Ethereum with Respect to Scalability and Security
Programming Languages (proficient): Rust, Go, TypeScript, Python, Solidity
Other: Applied Cryptography, Mechanism Design, Distributed Systems

PROFESSIONAL EXPERIENCE *Independent Consultant* March 2018-Present

- Engineering, mechanism design and code auditing
- Notable projects:

- Interledger protocol implementation in Rust
- TBTC, Bitcoin on Ethereum utilizing threshold-ECDSA, a BLS random beacon, compact SPV proofs and sound cryptoeconomic design

Lead Researcher and Engineer October 2017-June 2019
Loom Network <https://loomx.io>

- Research and development on trust-minimized sidechains for Ethereum
- Managed the onboarding process of 21 validators on the staking platform
- Implemented a Delegated Proof of Stake algorithm on top of Tendermint
- Implemented cross-chain communication smart contracts which escrowed over \$14,000,000
- Implemented Plasma Cash, a Layer-2 solution for Ethereum

Software Engineering Intern July 2017-December 2017
Honda R&D Germany <http://www.honda.de>

- Researched blockchain applications on energy markets.
- Developed and tested proprietary smart contracts (tools: Solidity, Truffle Framework, OpenZeppelin, Ganache, Web3.js, Web3.py)

Founder January 2017-June 2017
ThessSec <https://github.com/ThessSec>

- Organized and led bi-weekly student meetups and interactive workshops on information security and privacy
- Taught about Bitcoin, Web Application Penetration Testing, Network Security (among others) to over 200 students in total

RESEARCH, WRITING & PUBLIC SPEAKING

- *Plasma Cash: Towards Improved Plasma Constructions*, presented in Stanford Blockchain Conference, MIT Bitcoin Expo, Devcon4. Weak reject from AFT2019
- *Non-Custodial sidechains for Bitcoin using Plasma Cash and Covenants*, to be presented at Scaling Bitcoin 2019 (full paper TBD)
- Personal blog with over 775,000 views. Notable posts: "How I hacked 40 Websites in 7 minutes", "Deep Dive on RSA Accumulators"
- Full list of talks here.