

Emir Habul

SOFTWARE ENGINEER · DEVELOPER · OVER 12 YEARS OF INDUSTRY EXPERIENCE

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Experience

Software Engineer at a startup

Palo Alto, California

TILLION, INC. - [HTTPS://WWW.TILLION.AI/](https://www.tillion.ai/)

Jan 2022 - Jan 2025

- Tillion helps companies bridge the gap between legal and engineering. It uses Artificial Intelligence to analyze both legal documents, contracts, agreements, reports etc. as well as it analyzes source code, to answer questions and generate reports related to compliance, data privacy, security, etc.
- I was one of the early employees in the company, leading the development of infrastructure, front-end and backend solutions.

Firmware Developer / Contractor

New York, New York

DELTA PAG, DELTA PERFORMANCE AUTOMOTIVE GROUP, LLC - [HTTPS://DELTAPAG.COM/](https://deltapag.com/)

2020 - 2021, 2024

- Hardware and firmware developer for micro-controller unit (MCU) that implements Field Oriented Control (FOC) of brush-less permanent magnet motor, with high efficiency and performance.
- Developed from scratch software and hardware for temperature speed controller that is adjustable via LED and button interface and controls the speed of the motor depending on the current temperature and other auxiliary inputs.

Software Engineer (Level 6)

Menlo Park, California

META INC. (FACEBOOK INC & INSTAGRAM) - [HTTPS://ABOUT.META.COM/](https://about.meta.com/)

2011 - Dec 2019

- Supported operations and tooling of [Release engineering team](#).
 - Owned various internal tools (hypershell, build and deploy tools, release management).
 - Led an effort to switch all of our internal web servers from [HipHop transpiler](#) platform to [HipHop virtual machine](#).
 - Worked on optimizing deployment speed of web servers by using [squashfs](#).
- Designed the [continuous deployment](#) for Facebook's [www](#) codebase.
 - Switching to deploying from master changed how the entire company releases PHP/Hack code, making it faster and more automated.
- Generated 700 million personal video clips, [Lookback videos](#) for tenth anniversary of Facebook.
 - Played a crucial role in implementing rendering pipeline.
 - Launch significantly improved public survey satisfaction results about Facebook.
- Led a team that worked on [automating migration of services](#) in data-centers.
 - Efforts of our team, resulted in approximately 80% of host types in datacenters having a handler.
- Part of a team that applied Mixed-Integer Programming constraint solver for optimizing data-center layout (placement constraints, fault tolerance, power balancing, network usage balancing).
 - Improved monitoring of the service, and created a visualization tool to help debug issues.
- Worked on [Instagram Core Business Platform](#) team.
 - Part of a product infrastructure team, my primary focus was insights platform.

University Intern Software Developer

Kuala Lumpur, Malaysia

INTEG - KICT - INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

Apr-July 2010

- Built [Survey n' Vote](#), a MediaWiki extension for voting online and with phone via SMS.

High-School Intern (part-time)

Sarajevo, Bosnia

GRAFOART / COMPUTER DEPARTMENT

2002-2005

- Designed and printed posters, invitations, dissertations, books, etc.
- Built PHP/MySQL application for accounting and inventory tracking.

Education

Computer and Electronics Engineering Undergraduate

Kuala Lumpur, Malaysia

BACHELOR OF ENGINEERING, INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

2006-2010

- CGPA 3.62 (scale out of 4.00), graduated with honors.
- Tutor for Algorithm analysis and design course - CSC3502.
- Participated and won various ACM ICPC style programming competitions in Malaysia during my studies.

High-School education

Sarajevo, Bosnia

FIRST BOSNIAK HIGH SCHOOL

2001-2005

- Awarded as “Best student of generation” (Valedictorian).
- Won awards from regional competitions in subjects: Physics, Informatics, Democracy.
- Bosnia and Herzegovina Olympiad in Informatics (BHOI) 2005 - 2nd place
- Participant of International Olympiad in Informatics (18-25 August, 2005, Nowy Sacz, Poland).
- Participant of Central-European Olympiad in Informatics (28 July - 4 August, 2005, Sarospatak, Hungary).

Primary School education

Sarajevo, Bosnia

ALEKSA ŠANTIĆ

1996-2001

- Awarded as “Best student of generation” (Valedictorian).
- Graduated primary school with 5,0 mark (equivalent GPA 4.0).
- Won awards from regional competitions in subjects: Mathematics, Physics, Informatics, technical drawing and geography.

Publications

- 2010 Mantoro T., Ayu M., Habul E., Khasanah A. U., SURVNVOTE: A Free Web Based Audience Response System to Support Interactivity in the Classroom The 2010 IEEE Conference on Open Systems (ICOS 2010), Kuala Lumpur, Malaysia, 5-8 December 2010.
- 2009 Sheroz Khan, Emir Habul, AHM Zahirul Alam, Aisha Hassan Abdalla, Further Analysis of a Sigma-Delta Resistance-to-Digital Converter for Differential Resistive Sensors“ IEEE-RSM2009; IEEE Regional Symposium on Micro and Nano Electronics (IEEE-RSM2009), August 10-12, 2009, Kota Bahru, Malaysia.
- 2010 Sheroz Khan, Emir Habul, Othman O Khalifa, A.H.M. Zahirul Alam “Differential Resistive Trans-ducer for Power Harvesting for Implanted Devices” IRIE 2010 Research and Innovation Exhibition, IIUM, Malaysia.
- 2010 “An Astable-Oscillator-Based Interface for High-Accuracy Ratiometric Signal Processing for Differential Resistive Transducers” IIUM Research, Invention and Innovation Exhibition 2010 (IRIE 2010) - Gold medal
- 2009 Dr. Shihab Ahmed Hameed, Emir Habul “A Virtual Classroom simulation, Learning Aid Tool” KERIE 2009 Kulliyah of Engineering Research and Innovation Exhibition, IIUM, Malaysia.
- 2007 Assoc. Prof. Dr. Sheroz Khan, Emir Habul, “Three-Dimensional (3D) Schematic For Electric Circuit Element Simulations” KERIE 2007 Kulliyah of Engineering Research and Innovation Exhibition, IIUM, Malaysia.

Personal and Side-Projects

- 2011 iSellBooks - Facebook app for trading books among students of IIUM.(Python, GAE, JavaScript)
- 2011 wikigraph - Graph analysis of English wikipedia. (C++, MySQL, Large data)
- 2006-2019 Problem solving practice including: [UVA](#), [SPOJ](#), [Project Euler](#), USACO, LeetCode and more. (C++)
- 2010 [valodator](#) - Use Programming Contest Control (PC^2) with online judges. (Python)
- 2010 axel - Improvements on open-source download manager. (C, sockets)
- 2010 emiraga.Processor - TopCoder contest arena applet plug-in (Java)
- 2008 Capacitors comparator - Analog circuit using astable multivibrator.
- 2008 A virtual classroom - learning aid tool. (Flash, Actionscript, XML, 3DS Max)
- 2008 Electronic door lock - Designed digital circuit using a simulator.
- 2007 [Schematic3D](#) - 3D Visualization of analog circuits. (C++, SPICE, OpenGL, MFC)
- 2006 emirHumper - Utility for automatically registering courses on IIUM website. (C++, sockets)
- 2004-2005 PBiblioBiH - I was technical and programming support in this project. PBiblioBiH is used in libraries for record cataloging and management. (PHP, MySQL)
- 2003 - Made online testing web app for local Cisco Academy in Sarajevo (PHP, MySQL)

Skills

Spoken Languages English, Bosnian, Spanish

Languages TypeScript, JavaScript, Python, Rust, PHP, C, C++, Shell

Front-end React, React Native, HTML, CSS

Backend Actix, Express, Node.js, Vite

Databases MySQL, redis

Development tools Cursor AI, Version control (git), Static type checkers, Test driven development, Design Patterns, Design of data structures and algorithms, Object Oriented Design, Machine Learning, Artificial Intelligence