

## Fahim Tahmid Chowdhury

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| CONTACT INFORMATION   | Flat H-6<br>19/2 Garden Road<br>Kawran Bazar<br>Dhaka Bangladesh 1215   | Cell: (+880) 1737785811 Skype: fahim.tahmid.chowdhury<br>E-mail: <a href="mailto:fahimcsebuuet@gmail.com">fahimcsebuuet@gmail.com</a><br>LinkedIn: <a href="http://www.linkedin.com/in/fahimtahmidchowdhury">www.linkedin.com/in/fahimtahmidchowdhury</a><br>Website: <a href="http://fahimcsebuuet.github.io/website/">fahimcsebuuet.github.io/website/</a> |
| OBJECTIVE             | Satisfy my thirst for innovation and add values to the society while building up my career in research assisted by my engineering acumen  |  |
| RESEARCH INTERESTS    | <ul style="list-style-type: none"><li>• <b>Computer Vision:</b> Video Processing and Video Surveillance</li><li>• <b>Machine Learning:</b> Neural Network and Deep Learning</li><li>• <b>Human-Computer Interaction:</b> Technology to Aid the Differently Abled</li></ul>  |  |
| EDUCATION             | <b>Bangladesh University of Engineering and Technology</b> , Dhaka, Bangladesh<br>Bachelor of Science, <b>Computer Science and Engineering</b> , February 2013<br>CGPA <b>3.54</b> /4.00<br><b>Notre Dame College</b> , Dhaka, Bangladesh<br>Higher Secondary Certificate(HSC), Science, 2007<br>GPA <b>5.00</b> /5.00<br><b>Ispahani Public School and College</b> , Chittagong, Bangladesh<br>Secondary School Certificate(SSC), Science, 2005<br>GPA <b>5.00</b> /5.00   |  |
| UNDERGRADUATE THESIS  | <b>Design of a Surveillance System for Dhaka City</b> , <i>Graph Drawing and Information Visualization Lab</i> , CSE, BUET under the supervision of <b>Dr. Md. Saidur Rahman</b> <ul style="list-style-type: none"><li>- Designed and simulated an integrated system to monitor and control the traffic system of Dhaka</li><li>- Applied different shortest path algorithms(Dijkstra's algorithm, Dijkstra's algorithm in a circular or band region and A* Search) on Dhaka city map</li><li>- Proposed locations for police-boxes on the prominent road-crossings of Dhaka using 2-Approximation Vertex Cover Algorithm</li><li>- Proposed heuristic algorithm that can be applied on clustered map of a large area</li></ul> The simulation of the thesis is showcased <a href="#">here</a>  |  |
| ACADEMIC PROJECTS     | <ul style="list-style-type: none"><li>• <b>CSE Office Management:</b> An integrated system for automating all the official tasks(<i>i.e. Inventory management, Notice board, Teachers' profile, Peer-to-peer communication etc.</i>) of Department of CSE</li><li>• <b>Automated Water Faucet:</b> A portable hardware device that can be put on any water tape to control the flow of water automatically by detecting human presence using PIR sensor for avoiding wastage</li><li>• <b>Digital Watch with Timer:</b> A digital watch with timer developed using ATMEGA 8 Microcontroller</li><li>• <b>NACHOS:</b> Not Another Completely Heuristic Operating System implementation developed in C++</li><li>• <b>LAN Messenger:</b> A Java software for chatting with the contacts that are in a LAN</li><li>• <b>Snooker Game:</b> A two player Snooker game developed in C++</li><li>• <b>Screensaver:</b> A simple screensaver developed in Assembly Language</li></ul> |  |
| RELEVANT COURSES      | <ul style="list-style-type: none"><li>• <a href="#">Artificial Intelligence</a></li><li>• <a href="#">Machine Learning</a></li><li>• <a href="#">Pattern Recognition</a></li><li>• <a href="#">Computer Graphics</a></li></ul>  |  |
| ACADEMIC ACHIEVEMENTS | <ul style="list-style-type: none"><li>• Champion in the Intra-Department Project Competition for the project <i>CSE Office Management</i></li><li>• Board Merit Scholarship, HSC Examination</li><li>• Board Merit Scholarship, SSC Examination</li></ul>   |  |
| STANDARDIZED TESTS    | <ul style="list-style-type: none"><li>- GRE: <b>321</b>/340 (Quantitative - 170/170, Verbal - 151/170, Analytical Writing - 3.0/6.0)</li><li>- TOEFL: <b>107</b>/120 (Reading - 27/30, Listening - 28/30, Speaking - 27/30, Writing - 25/30)</li></ul>  |  |

PROFESSIONAL  
EXPERIENCE

**IPvision Canada Inc**, Dhaka, Bangladesh

**Software Analyst**

**October, 2016 - Till Date**

Working as a member of the SDK team for the social networking platform **ringID**

**Vizrt**, Dhaka, Bangladesh

**Software Engineer**

**July, 2014 - September, 2016**

Served as a member of R&D branch of Dhaka for **Sports Solutions** mostly in **Viz Libero** software

**Enosis Solutions**, Dhaka, Bangladesh

**Software Engineer**

**February, 2013 - June, 2014**

Worked as a member in the **Visual-Host** (an offshore SDK framework of a Computer Aided Engineering(CAE) software **Visual-Environment**) development team

**Runners Cyberlink**, Dhaka, Bangladesh

**Freelance Developer**

**August, 2012 - September, 2012**

Joint as a part-timer for finalizing the world-wide release of an e-commerce platform **Customers Demand**

**TechnoVilla Solutions Ltd**, Dhaka, Bangladesh

**Software Engineer**

**November, 2011 - June, 2012**

Worked as a part-timer in the **Web Application Development** team for outsourcing in various products

TECHNICAL  
SKILLS

- Programming Languages: **C/C++**, Python, C#, Java, Matlab, Assembly, Prolog
- Scripting Languages: **Javascript**, **PHP**, ASP, Bash
- Web Development Languages: HTML, CSS
- API Library: **CUDA**, **ANN**, Opengl, Boost, Windows API, jQuery
- Frameworks: **Qt Framework**, **MFC**, .NET Framework, Google Test, CodeIgniter, CakePHP
- Game Engine: Unity Game Engine
- CMS: Joomla, Wordpress, ELGG
- Microcontroller Programming: Atmel AVR microcontroller programming using C
- Database Management System: MySQL, Oracle 10g, Oracle 11g, Web SQL, SQL Server
- Simulator: CISCO Packet Tracer, PSpice, Proteus, Webots
- Compiler Tools: Lex, Yacc
- Design Tools: EDraw, GraphViz, Rational Rose
- Documentation Tools: **L<sup>A</sup>T<sub>E</sub>X**, Doxygen
- Project Management: Jira, Redmine, Mantis, Microsoft Project
- Version Control: Mercurial, Git, SVN
- Operating System: Unix/Linux, Windows

LEADERSHIP  
AND  
COMMUNITY  
WORK

**Engineering Students' Association of Bangladesh**

*A common platform for all the engineering students of Bangladesh*

For latest updates: [LinkedIn](#), [Facebook](#), [Youtube](#)

**Co-founder**

**November, 2013 - Till Date**

Acting as a lifetime member and one of the crucial decision makers of this association

**President**

**October, 2011 - November, 2013**

**Pioneered** the voluntary association alongwith a bunch of energetic and wonderful people and served as the organizational head

VOLUNTARY  
PROJECTS

- **Bangladesh Emergency Services**: A mobile phone based service covering different police stations, fire brigades and public hospitals of entire Bangladesh made by **eLITEs**
- **Dhaka Metropolitan Police: DMP**: A one stop application for making the police services easily accessible made by **eLITEs**
- **Gaming Application for Differently Abled Children (Ongoing)**: A car racing game interfaced with cycling machine for encouraging the **Active Range Of Motion Exercise (AROME)** for the children having weakness in **Quadriceps femoris muscle** being conducted in **Feroza Bari Disabled Children Hospital**
- **Software for ReCAP**: A software for prioritizing the roads and highways by simulating an algorithm that is developed by **Department of Urban and Regional Planning**, BUET