Fahim Tahmid Chowdhury

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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
- **Computer Vision:** Video Processing and Video Surveillance
- **Machine Learning:** Neural Network and Deep Learning
- **Human-Computer Interaction:** Technology to Aid the Differently Abled

Education

Bangladesh University of Engineering and Technology, Dhaka, Bangladesh
  Bachelor of Science, Computer Science and Engineering, February 2013
  CGPA **3.54**/4.00

Notre Dame College, Dhaka, Bangladesh
  Higher Secondary Certificate(HSC), Science, 2007
  GPA **5.00**/5.00

Ispahani Public School and College, Chittagong, Bangladesh
  Secondary School Certificate(SSC), Science, 2005
  GPA **5.00**/5.00

Undergraduate Thesis
Design of a Surveillance System for Dhaka City, *Graph Drawing and Information Visualization Lab*, CSE, BUET under the supervision of Dr. Md. Saidur Rahman
- Designed and simulated an integrated system to monitor and control the traffic system of Dhaka
- Applied different shortest path algorithms(Dijkstra's algorithm, Dijkstra's algorithm in a circular or band region and A* Search) on Dhaka city map
- Proposed locations for police-boxes on the prominent road-crossings of Dhaka using 2-Approximation Vertex Cover Algorithm
- Proposed heuristic algorithm that can be applied on clustered map of a large area

The simulation of the thesis is showcased **here**

Academic Projects
- **CSE Office Management:** An integrated system for automating all the official tasks*(i.e. Inventory management, Notice board, Teachers' profile, Peer-to-peer communication etc.)* of Department of CSE
- **Automated Water Faucet:** 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
- **Digital Watch with Timer:** A digital watch with timer developed using ATMEGA 8 Microcontroller
- **NACHOS:** Not Another Completely Heuristic Operating System implementation developed in C++
- **LAN Messenger:** A Java software for chatting with the contacts that are in a LAN
- **Snooker Game:** A two player Snooker game developed in C++
- **Screensaver:** A simple screensaver developed in Assembly Language

Relevant Courses
- Artificial Intelligence
- Machine Learning
- Pattern Recognition
- Computer Graphics

Academic Achievements
- Champion in the Intra-Department Project Competition for the project *CSE Office Management*
- Board Merit Scholarship, HSC Examination
- Board Merit Scholarship, SSC Examination

Standardized Tests
- GRE: **321**/340 (Quantitative - 170/170, Verbal - 151/170, Analystical Writing - 3.0/6.0)
- TOEFL: **107**/120 (Reading - 27/30, Listening - 28/30, Speaking - 27/30, Writing - 25/30)

PROFESSIONAL EXPERIENCE	**IPvision Canada Inc**, Dhaka, Bangladesh

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: LaTeX, 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