

## 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	
CURRENT EMPLOYER	<b>Department of Computer Science, Florida State University</b> , Tallahassee, Florida <b>Graduate Research Assistant</b> August, 2017 - Till Date Working in <b>Computer Architecture and Systems Research Lab (CASTL)</b> under <i>Professor Dr. Weikuan Yu</i>	
RESEARCH INTERESTS	<ul style="list-style-type: none"><li>• <b>Computer Architecture:</b> File Systems and Storage, Memory Acceleration</li><li>• <b>Artificial Intelligence:</b> Machine Learning, Neural Network and Deep Learning</li><li>• <b>Theoretical Computer Science:</b> Graph Theory, Drawing and Visualization</li></ul>	
EDUCATION	<b>Florida State University</b> , Tallahassee, Florida PhD, <b>Computer Science</b> , Currently studying <b>Bangladesh University of Engineering and Technology</b> , Dhaka, Bangladesh Bachelor of Science, <b>Computer Science and Engineering</b> , February 2013 <b>Notre Dame College</b> , Dhaka, Bangladesh Higher Secondary Certificate(HSC), Science, 2007 <b>Ispahani Public School and College</b> , Chittagong, Bangladesh Secondary School Certificate(SSC), Science, 2005	
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>	
INDUSTRY EXPERIENCE	<b>IPvision Canada Inc.</b> , Dhaka, Bangladesh <b>Software Analyst</b> October, 2016 - July, 2017 Working as a member of the SDK team for the social networking platform <b>ringID</b> <b>Vizrt</b> , Dhaka, Bangladesh <b>Software Engineer</b> July, 2014 - September, 2016 Served as a member of R&D branch of Dhaka for <b>Sports Solutions</b> mostly in <b>Viz Libero</b> software <b>Enosis Solutions</b> , Dhaka, Bangladesh <b>Software Engineer</b> February, 2013 - June, 2014 Worked as a member in the <b>Visual-Host</b> (an offshore SDK framework of a Computer Aided Engineering(CAE) software <b>Visual-Environment</b> ) development team <b>Runners Cyberlink</b> , Dhaka, Bangladesh <b>Freelance Developer</b> August, 2012 - September, 2012 Joint as a part-timer for finalizing the world-wide release of an e-commerce platform <b>Customers Demand</b> <b>TechnoVilla Solutions Ltd</b> , Dhaka, Bangladesh <b>Software Engineer</b> November, 2011 - June, 2012 Worked as a part-timer in the <b>Web Application Development</b> 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:  $\text{\LaTeX}$ , 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

## 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

## 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