

Michael Digman

329473 Georgia Tech Station
Atlanta, GA 30332

(240) 217-9587
mdigman@gatech.edu

Education

Georgia Institute of Technology, Atlanta, GA May 2011

- Major: Computer Engineering
- GPA: 4.0

Skills

Programming Languages: C, C++, Objective-C, MATLAB, Java, PHP, MYSQL, Python, Shell Scripting

Research: Literature searching and analysis, testable theory development, environment model creation, formal report production

Development: Experiment design, custom made equipment, statically relevant data analysis, variable reduction, budget minimization

Electronics: Soldering, desoldering, computer assembly, hardware diagnostics, data logger and PID experience

Communication: oral and poster driven presentations, leading group brain storming, simplify complex language for explanation, language interpretation and verification for test writing

Experience

NASA Goddard Cooperative Education Program (August 09 – August 11)

- Develop VSLI code for interstellar navigational systems
- Literature presentation, budget analysis
- To be employed every summer from now until graduation

National Electric Energy Testing Research and Applications Center (NEETRAC), Atlanta, GA (May 08 – September 08)

- Evaluate IEEE, NEMA, ASTM databases for relevant research material
- Craft, prepare and conduct experimentation on power cable samples that minimizes cost and variable interference
- Analyze data from experimentation to construct testable theory
- Develop formal report and oral presentation of work to demo discoveries

Georgia Tech School of Electrical and Computer Engineering Researcher, Atlanta, GA (August 07 – Current Day)

- Develop and assess optimization algorithms for improving voltage profiles of complex power systems
- Research topics include: data storage on polymers, the Genetic algorithm, the Differential Evolution algorithm and the Bacterial Foraging algorithm

MATLAB Computer Science Teaching Assistant, Atlanta, GA

(December 07 – August 08)

- Co-instruct a recitation section of 40 students for 1.5 hours per week
- Aid students at walk-in help sessions
- Develop and evaluate homework assignments and test questions

Awards

- Recipient of Georgia Tech Presidential Undergraduate Research Award for work on optimization of bio-inspired optimizers — Nov 08
- Co-author of published paper accepted at IEEE Swarm Intelligence Symposium; attending conference on scholarship — May 08
- Second place in Georgia Tech School of Electrical and Computer Engineering Research Competition — April 08
- First place in Opportunity Scholar Research Competition — April 08

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Activities

- Co-manager of Youth United Way program
- Students for Sustainability
- GT Triathlon Club (Olympic, Half-Iron and soon Iron distance)
- GT Runnin' Wreck (Marathon)

Publications

“Enhanced Particle Swarm Optimizer for Power System Applications.” *Swarm Intelligence Symposium*. IEEE, September 2008.