CSCE483: Computer System Design – Student Questionnaire

Name: ________________________________________________________________

UIN: ____________________________ Aug 27, 2012

This questionnaire is being distributed to help us learn more about your interests, academic strengths and experiences. The information you provide will assist us in assigning you to the appropriate project.

**Question 1**

The last page of this handout lists a number of Computer Engineering/Science specialties. Please select the top three areas that best describe your interests.

My first choice is _______________________________________________________

My second choice is ____________________________________________________

My third choice is _____________________________________________________

**Question 2**

List the top three courses that you have enjoyed the most during your undergraduate studies.

The best course was _____________________________________________________

The second best course was ______________________________________________

The third best course was ________________________________________________

**Question 3**

Please specify the semester and year in which you took CSCE 462__________________
Question 4

Describe your strengths. For example, would you describe yourself as a software person, a hardware person, or both? Are you better at creating, analyzing or implementing solutions? Are you a bottom-up or a top-down person?

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Question 5

Describe any hands-on skills (e.g., programming languages, software packages, design tools) that would make you attractive to a potential employer.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Question 6

Describe any experiences (e.g., internships, co-ops, undergraduate research, and general employment) that may complement your academic credentials.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
Question 7

Describe any additional qualifications or constraints that you think should be considered when assigning you to a particular project. Do you have any additional background outside of the Computer Engineering curriculum?

_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

Question 8

Have you worked with sensors such as cameras, accelerometers, Gauss meters, programmable radio receiver, Infrared motion detector, etc? What is your most familiar micro-computer platform if any? Have you programmed as networked communication software using TCP/IP sockets? Are you familiar with chip-level communication such as SPI, I2C, etc.? Have you worked with a DC motor before?

_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

Question 9

One of the members of each team will act as the leader. In addition to performing technical tasks, the leader has additional responsibilities, which include scheduling team building activities, facilitating discussions and brainstorming sessions, helping resolve conflicts, monitoring progress (both individual and group), milestones, and ensuring equal distribution of workload across team members. Would you like to be considered for a leadership role in your team? If so, why? If not, why not?

_________________________________________________________________
_________________________________________________________________
Assignment

You’ll be probing the job market pretty soon, if you have not started already. For this reason, your first assignment in this class will be to prepare a résumé and hand it to us within the next two days. Your goal is to prepare a strong and impressive resume to convince us (think of us as the prospective employer) that you should be assigned to one of your preferred projects.

Areas of Interest

TH  Theory, parallel algorithms, algorithms, combinatorics, optimization, cryptography, theoretical computer science
Chi+  Human computer interaction, multimedia, cognitive modeling, hyper/multi media/text, digital libraries
CSys  Computer systems, computer architecture, resilient CSys, fault tolerance, VLSI
NetDis  Networks, communications, distributed systems/computing, computer communication, distributed/concurrent systems, telecommunications, high speed network, scalable infrastructure, security, cryptography Web, Internet, XML, HTML, e-commerce
RT  Real-time systems, embedded computers/systems
OS  Operating systems, remote computing, cooperating processes
SW  Software engineering, software, distributed agents, intelligent agents, object oriented model design, formal methods, software metrics
CmplLang  Compilers (often parallel), language design
DB  Database, distributed DB, DB management systems, OODB, information systems
IS/R  Information storage and retrieval, data mining
AI/ap  Artificial intelligence, neural nets, fuzzy logic, machine learning, intelligent agents, virtual reality, data mining
CSE  Computational science/engineering, computational mathematics, numerical analysis/computing, scientific computing, simulation, high performance computing
Gr/Viz  Computer vision, image processing, imaging, graphics
Rob  Manufacturing automation, robotics, industrial automation, sensors
Other  Any other specialties not included in this list (please specify)