

# Strategic Estimating Systems

**Charles McGuire**, Associate Estimator

Curriculum Vitae

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## EXPERIENCE

**Strategic Estimating Systems**, Sugar Land, TX  
**Associate Estimator**

**2008 – Present**

- Provide cost estimating consultant services for the Chemical Process Industry (CPI)
- Specialize in training and implementation services for the Aspen Economic Evaluation Suite of Process Engineering software, *Aspen Technology, Inc.*
- Project Task Experience:
  - Applications Programming Interface (API) project build-up and data entry: equipment input, Work Breakdown Structures (WBS), project areas, civil, electrical, etc. for cost estimating analysis and data transfer into Aspen Capital Cost Estimator (ACCE)
  - P&ID/PFP manual quantity take-off (piping, instrumentation)
  - P&ID/PFP analysis
  - Material Take-Off (MTO) – Civil & Steel drawings
  - Equipment Design analysis
  - Synchronize and upload API quantities into ACCE (mapping)
  - Critical Analysis using ACCE – overall project
  - Compare cost estimates
  - Generate estimate reports using ACCE/Kbase; Create custom reports using Microsoft Excel
  - Prepare and deliver presentation results to clients using generated reports/analysis findings

**Engineering Ministries International**, Kampala, Uganda  
**Civil Engineering Intern**

**Summer, 2007**

- Part of team responsible for providing civil plans and cost estimation to decision makers and ministry leaders
- Project Task Experience:
  - Aided in completion of water/wastewater system designs for 2 churches, 2 schools, and a girls' orphanage
  - Completed AutoCAD design plans for water/wastewater pipeline systems of all facilities
  - Computed and organized necessary information for hydraulic requirements in Microsoft Excel and presented summary tables in final reports
  - Wrote text detailing and explaining civil design plans for final reports
  - Computed and organized complete cost estimation for all facilities using Microsoft Excel, including pipeline and full structural cost estimation, and presented summary tables in final reports

## Education

**University at Buffalo**, Amherst, NY  
**Student**

**2004-2008**

- Bachelor of Science Degree, Civil Engineering

## Training

- AspenTech ACCE/Kbase Training (Basic, Advanced)

## Clients

- JGC Corporation
- ExxonMobil
- Dow Chemical
- Linde BOC
- Energie Beheer Nederland (EBN)
- Commonwealth
- Western Refining
- Scientific Design
- Enbridge

## COMPUTER/TECHNICAL SKILLS:

- Aspen Capital Cost Estimator (ACCE/Kbase)
- Microsoft Office (Excel, Word, PowerPoint)
- AutoCAD
- STAAD
- Pro-Engineer Design
- Solid Works
- Maple 9.5
- C++
- Tekla Design

## OTHER NOTABLE EXPERIENCE/ACHIEVEMENTS:

### College Activities/Awards:

*UB Scholars Program (Academic Scholarship); UB Table Tennis Club President; American Society of Civil Engineers; American Institute of Aeronautics and Astronautics.*

## CLUB ACTIVITIES:

### **American Institute Aeronautics and Astronautics**

**2004-2008**

#### ***Participant Member***

*Club dedicated to the pursuit of knowledge in the field of aerospace engineering. The American Institute of Aeronautics and Astronautics is the principal society of the aerospace engineer and scientist.*

- Microgravity Research Team: Formulated a research experiment for NASA to perform in a zero-gravity environment. Lead sketch designer and 3D CAD artist of the variable body used for the experiment
- Tested the properties of rotational dynamics when rotating a variable body around its 3<sup>rd</sup> (Z) axis with no gravitational interference. One of three primary writers for the 60+ page proposal position paper