

## MIT 513 : Computer-based Instructional Module



### CBI Module

#### Context & Conditions:

“Writing a check,” a computer-based instructional product, was completed in the spring semester of 2006 in partial fulfillment of a course entitled: MIT 513 Computer-based Instruction. Under the guidance of Dr. Arnold Murdock this product was designed and developed for computer literate learners who wanted to understand the proper way to write checks.

#### Scope:

This project entailed the design and development of a computer-based instructional product (CBI). The product was developed using Macromedia Fireworks and Click-2-Learn’s Toolbook Instructor. A design document was initially produced that outlined the need/purpose of the project, client requirements/restraints, performance objectives, evaluation items, instructional strategy, and media requirement. From the design document the screen design, interactivity, and delivery methods were defined. This project was completed within one semester.

#### Role:

I served as the sole member of the project team. Throughout this project I wore many hats including instructional designer, CBI developer, and project manager. As an instructional designer I conducted a brief learner and task analysis, defined the performance objectives, and designed the assessments. Working as a CBI developer I designed the user-interface and put the content into a usable format.

**Reflection:**

This class allowed me to further understand how the domains of instructional technology are related. The previous semester I had taken my introduction to instructional systems design which focused on the design of an instructional product and this class allowed me to see the next step in the process, development. This course refined my skills in Macromedia Fireworks and introduced a new tool to my tool belt, Toolbook. I found Toolbook to be an excellent development tool in that it allowed for both computer-based delivery through CD-ROM as well as internet delivery by placing the product on a server. I was happy with the way the product turned out but would have liked to work a little longer on the navigation and include a little more scripting in the final product.

**Domains/MIT Competencies/Job Qualifications/Artifacts**

Domain of Instructional Design			
MIT Competencies	Job Qualifications	Artifacts	Rationale
Sequence learner outcome.	Sound understanding of content development and curriculum design	MIT 513 -CBI Module	This product represents my understanding of the sequencing of learner outcomes.
Specify instructional strategies and sequence the instructional strategies.	Sound understanding of content development and curriculum design	MIT 513 -CBI Module	This product demonstrates the type of thinking required to determine proper instructional strategies and proper sequencing of objectives.
Select appropriate applied information	Effectively assesses the feasibility of	MIT 513 -CBI Module	This product demonstrates an understanding of the

technologies to achieve instructional objectives.	solutions in terms of client needs and available resources.		available technologies and the advantages and disadvantages of each.
Domain of Instructional Development			
MIT Competencies	Job Qualifications	Artifacts	Rationale
Develop projected and non-projected graphic instructional materials.	Experience developing multimedia learning objects required	MIT 513 -CBI Module	These two products are good examples of my instructional multimedia development skills.
Demonstrate knowledge of the principles of perception and visual learning applicable to the design and production of photographic instructional materials.	Knowledge of composition and screen design	MIT 513 -CBI Module	These projects represent my awareness and ability in screen design as it relates to visual learning.
Demonstrate knowledge of computer utilization practices and the ability to apply them in instructional settings including: computer literacy, software selection and evaluation, instructional management, hypermedia	Experience designing and developing online courses using WebCT, Blackboard, or Moodle  Experience using computer and online based learning solutions.	MIT 513 -CBI Module	The WebQuest demonstrates my ability to develop basic, web-based instruction to be used with a facilitator, while the CBI is much more interactive and can be completed individually by the learner.

development and distance learning.			
Design and produce computer-based instruction including drill-and-practice and tutorial programs.	Experience creating computer-based instruction using Toolbook or Authorware	MIT 513 -CBI Module	This CBI shows a good example of the drill and practice format that computer-based-instruction is very good for.
Design and produce interactive multimedia systems.	Experience using various development tools (video, graphics, sound) to develop multimedia enhanced courses	MIT 513 -CBI Module	Interactivity was incorporated into each of this products in an attempt to keep the learner engaged and increase retention.
Demonstrate knowledge and ability to design and produce self-instructional modules, training manuals, instructor's guides and job aids.	Experience creating learner and instructor guides	MIT 513 -CBI Module	This is a good example of a self-instructional module I developed.
Design and produce mediated instruction.	Demonstrate the ability to incorporate multimedia design tools into the development of instruction  Demonstrate a strong background in all phases of the instructional	MIT 513 -CBI Module	The CBI module is an excellent example of computer-mediated instructio <sup>n</sup> .

	development process		
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