

**CD-ROM Development and Marketing for the University of
Cincinnati, College of Applied Science**

By

Brian C. Moore

Submitted to
the Faculty of the Information Engineering Technology Program
in Partial Fulfillment of the Requirements for
the Degree of Bachelor of Science
in Information Engineering Technology

University of Cincinnati
College of Applied Science

March 2003

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Mr. Brian C. Moore

Date

Dr. Sam Geonetta, Faculty Advisor

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Prof. James F. Sullivan, Department Head

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1. Statement of Need

The College of Applied Science (CAS) needs to be marketed in a better way. Associate Dean Cheryl Dunn feels that there is only general information about the school such as publications like the *College Bulletins*, *Viewbooks*, and Web sites available to those interested in attending CAS (1). To market the school, I created a CD-ROM to appeal to the interests of incoming students.

The CAS CD-ROM is a multimedia product that will be used for marketing the College of Applied Science. It is designed for high school and college transfer students, parents, and guidance counselors who should find this CD-ROM useful in making decisions about enrolling in the College. A multimedia CD-ROM was chosen for this purpose rather than Web pages or DVDs because CDs are easy to use, compatible with a range of computer hardware, and readily available. Also CD-ROMs are easier to mass-produce.

The CD-ROM has pictures of the school's campus and interviews with faculty and students. It is designed to serve as a framework for later marketing efforts by the College of Applied Science. This CD-ROM is intended to attract new students to CAS. The school has highly regarded programs that more people need to be aware of. The school's Construction Management degree program is nationally ranked in the top ten consistently. CAS's graduate placement is one of the best in the University. Its co-op department is the oldest co-op department in the nation, and its hands-on laboratories and Senior Design Programs make it unique in Cincinnati. All these things combined and

more make CAS a dynamic and technically diverse campus where students and faculty can share in beautiful surroundings and, according to its students, a friendly atmosphere.

At the College of Applied Science (CAS) there is a need to market the school to students who might be interested in attending but don't feel confident enough that CAS would be right for them. Many high school and college transfer students that would otherwise consider coming to CAS don't because they don't understand the programs offered here or are unacquainted with the school. The College needs to inform high school students and adults of the opportunities that come from graduating from CAS according to the Professional Practice and Career Placement office. (2) The College has the second highest starting salaries for graduates. Many students who may want to come to CAS are hesitant to apply because of the high academic standards and emphasis on technology, math, and science that the school has, according to department heads I interviewed. (3) Many people who would be interested in learning more about the programs at CAS don't feel they could succeed at math, science, or technology, and don't understand that there is help for them, such as the Math Lab or the Programming Learning Center.

There are other reasons why students do not come to CAS. One of these reasons is that CAS is geographically separated from the University of Cincinnati Clifton campus. Many do not realize that Walnut Hills is a convenient location with many beautiful nearby sites. Within walking or a short driving distance from the College of Applied Science are some of Cincinnati's finest attractions including Eden Park, Mount Adams, The Cincinnati Art Museum, and the Playhouse in the Park. Close by are the upscale

Hyde Park and O'Bryonville shops and restaurants that are frequently noted in local magazines and newspapers.

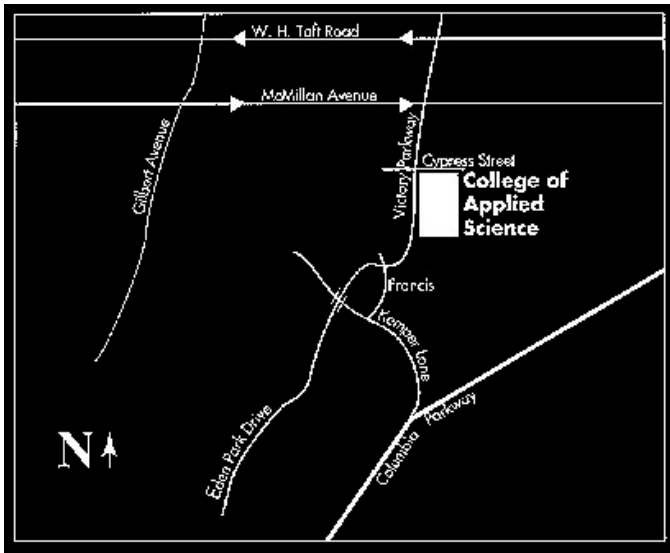


Figure 1. Map of CAS

As a commuter school, CAS may not be the first choice of students who would want to attend UC. For instance, an incoming freshman from high school that had to live in the dormitories might decide to go to the Engineering School because of its proximity to the Clifton campus.

As a small college of the University of Cincinnati, CAS has more of an academic environment. Although there are not as many student groups at CAS as there are on the Clifton campus for incoming freshman who want to be a part of a larger social circle, there are social groups and student groups such as Student Tribunal. However, if one likes a quiet, down-to-earth atmosphere, CAS is the best place to learn, according to students.

Most importantly the educational programs at CAS are practical and valuable. One can find a full range of technical majors from Mechanical Engineering Technology to Construction Management to Information Engineering Technology. CAS stresses the practical hands-on application of engineering principles. This is what makes CAS a unique school. According to the Professional Practice Office, the job placement rate of all graduates is usually between 90 and 100 percent. (2)

I had discussions with two CAS faculty members and the Associate Dean. They said, independently, that a CAS interactive CD-ROM would be a good idea for a multimedia project. Professor Robert Schlemmer, Associate Professor of Information Engineering Technology, recommended that I do an interactive CD-ROM for CAS (4). Dr. Hazem Said, Assistant Professor of Information Engineering Technology, recommended the same project to me (5). Associate Dean Cheryll Dunn, with whom I met about a similar multimedia project for CAS, liked the idea of a CAS interactive CD-ROM. (1) The College of Applied Science CD-ROM was developed to attract new students to CAS. The CD can be used by high school and college students, academic advisors, college recruiters, the general public, and to promote the school.

2. Creation of the CD-ROM

The CD demonstrates two areas of professional emphasis: multimedia and programming. For multimedia, I used video and still images to capture the school and its surroundings. I made videos of students and teachers being interviewed. I also made hyperlinks in the CD to important Web sites such as the University of Cincinnati's home page (www.uc.edu) and other pages on the UC site (onestop.uc.edu). For programming, I used various Lingo scripts within Director to create behaviors and elements for multimedia. In the CD-ROM there is also use of Internet Explorer with HTML, JavaScript, and Active X. I created buttons and menu options in the CD-ROM to enhance the multimedia and navigation.

2.1 Technical Details

The CAS CD-ROM was created using several multimedia software products. My main software program was Macromedia Director 7. I used Adobe After Effects,

Premiere, Photoshop, Illustrator, and Acrobat. Other products I used include Macromedia Flash and Sonic Foundry Acid Pro. There are also some 3D and special effects motion graphics in this project. I used Lingo and Active X programming to achieve this. I used Adobe Acrobat to create PDF files of print documents like the College *Bulletin*. Director is the authoring tool for this project because it is ideal for presentation and for CD-ROM interactive design. Director allows Lingo scripting which generates behaviors in buttons, frames, and hyperlinks. (6, pp. 203-251)

For capturing individual interviews I used the Mathematics, Physics, and Computing Technology Departments and videotaped interviews with students and faculty from different departments.

I used the IET Multimedia Lab at CAS for some of the work for this project such as research in the multimedia phase and learning to capture digital video from the camera to a hard drive.

My home desktop computer and my laptop were the most useful tools for my Senior Design project. For this project I had to purchase a CD burner and install a PCI firewire card in my computer. I used a copy of Director 7 and Acid Pro from the Multimedia Lab. I already owned most of the Adobe products I needed.

2.2 Description of the Product

The multimedia CD-ROM covers a range of diverse subjects. Not only did I interview and tape students on campus, but I had a complete fully-edited video interview with each Department Head from every academic department. I created interactive pages with information about the school from the College *Bulletin* and *Course Descriptions* catalog. The CD-ROM allows people interested in the college to learn more about

departments, teachers, student life, courses, job placement and, general information about the college. This information enables students to make a decision and, for those who choose to do so, to enroll at the University of Cincinnati College of Applied Science.

2.3 User Profile

The CD-ROM is designed for three different types of users. Generally, the type of person that will use the CD-ROM will have no Information Technology background, a key reason the project is in the easy-to-use format of a CD. The main target groups of users are high school and college transfer students.

The required IT competency is not extensive. This CD-ROM is designed to auto play upon insertion into a CD-ROM drive. The navigation is simple. The user should know exactly where he or she is going because there are clear and precise labels and buttons. The user should navigate through hyperlinks and Adobe Acrobat pages without problem. The user is guided through the process of viewing videos with play buttons and user controls. Overall the CD-ROM is designed to be extremely “user-friendly”.

2.3.1 High School and College Transfer Students

A person in this group will usually be 17-25 years of age. This person will have a background or interest in technical subjects such as construction, mechanics, computers, chemistry, electrical, or fire science. This person should have graduated from or will soon graduate from high school. This person also might be in college and is undecided about what he or she wants to do. Typically this person may have a general understanding of topics related to their field of interest but needs more education. This person is the main target user of the CD-ROM.

2.3.2 Academic Counselors and Teachers

These individuals will not be making a decision about whether to personally enroll at CAS. Rather they will be advising interested students about CAS. My main emphasis with this group of people is to make a CD-ROM that is professional looking and that contains information that is vital to this group. The information about departments and course descriptions should be helpful.

2.3.3 Adults and Parents

Adults and parents are usually those who “pay the bills” unless a student is paying his or her way through college. Even an older adult may want to enroll at CAS. Therefore, the influence of adults and parents has a significant part to play in whether the marketing is effective. The CD-ROM must also relate to mature ideals and show the benefits that the College has. The CD gives a feel that the College of Applied Science has something for everyone.

2.4 Project Design

I used two areas of emphasis within Information Engineering Technology for Senior Design: multimedia and programming. Director 7 was my main software tool for demonstrating competency in these two areas.

2.4.1 Multimedia

For multimedia, I used many software tools. The main ones were Macromedia Director and Flash, Adobe Photoshop, After Effects, Premiere, and Sonic Foundry Acid Pro. These tools enabled me to create the majority of multimedia effects such as video, animation, and interactive design.

Many graphical elements are used in the CD. Included are many standard logos and designs used by the University. Some of the design protocols in this project relate to the guidelines of the UC Branding Initiative. For instance, I used only Arial or Helvetica fonts as required by UC Branding Standards. I used PowerPoint templates from the Branding Initiative Web site (www.uc.edu/branding) for the backgrounds. The colors include red that is a standard and white for most of the text. Some of the backgrounds use the current UC logo.

2.4.2 Programming

I used the Lingo programming language which is native to Director. I used interactive elements in Director. Information that is important to the user is made available through Lingo programming and behaviors. I also used Active X programming along with HTML and JavaScript with Internet Explorer. Internet Explorer is programmed with Director through Lingo.

Director is much more than an animation or presentation tool. One can make full applications, educational software, or business applications with it. Lingo started out as a simple set of scripting commands used to control animation. Now it is a complete object-oriented language rivaling traditional ones such as C++ and Java (6, pp. 443-453).

Lingo is an English-like programming language. A line of Lingo code can actually be read aloud and interpreted by the English definitions of the words. All of the commands, functions, and other keywords in Director are English words, group of words, or abbreviations. Lingo is a way of speaking to the computer by giving it commands and asking it questions. In Director, a person can speak to the Director environment: the Score, the Cast, and the Stage. Lingo is a Cast member type, which means that when one

creates the Lingo code that controls your movie, it is stored in Cast members called Scripts. Scripts are Cast members that contain a piece of text that is valid Lingo code. They exist alongside the bitmaps, sounds, and shapes of the Director movie in the Cast. In some cases they are also placed in the Score (6, pp. 203-251).

The Internet Scripting in the project involves HTML, JavaScript, and Active X. It is called independently with Lingo and is brought to the screen in Internet Explorer. I have created the Help Menu and the ending Active X page with this. The Help Menu uses JavaScript as a multimedia tool and creates a rotating UC logo. The Active X page uses an Active X control called Microsoft DirectAnimation Structured Graphics control. This allows the text “CAS” to rotate in a 3D manner. These pages are stored as off-line files on the CD-ROM. There are also on-line hyperlinks to the Internet for the Web sites section of the CD-ROM.

2.5 Screen Design

Screen 1

The user will first see a 20 second Macromedia Flash animation with sound.



Figure 2. Picture of Screen 1

Screen 2

Then the user will see Robin Miller's Intro video and will have the option of skipping this.



Figure 3. Picture of Screen 2

Screen 3

The user will be able to see a splash page created with Lingo and an animated UC logo. The user will be forced to use the skip button here. There is also sound with this.

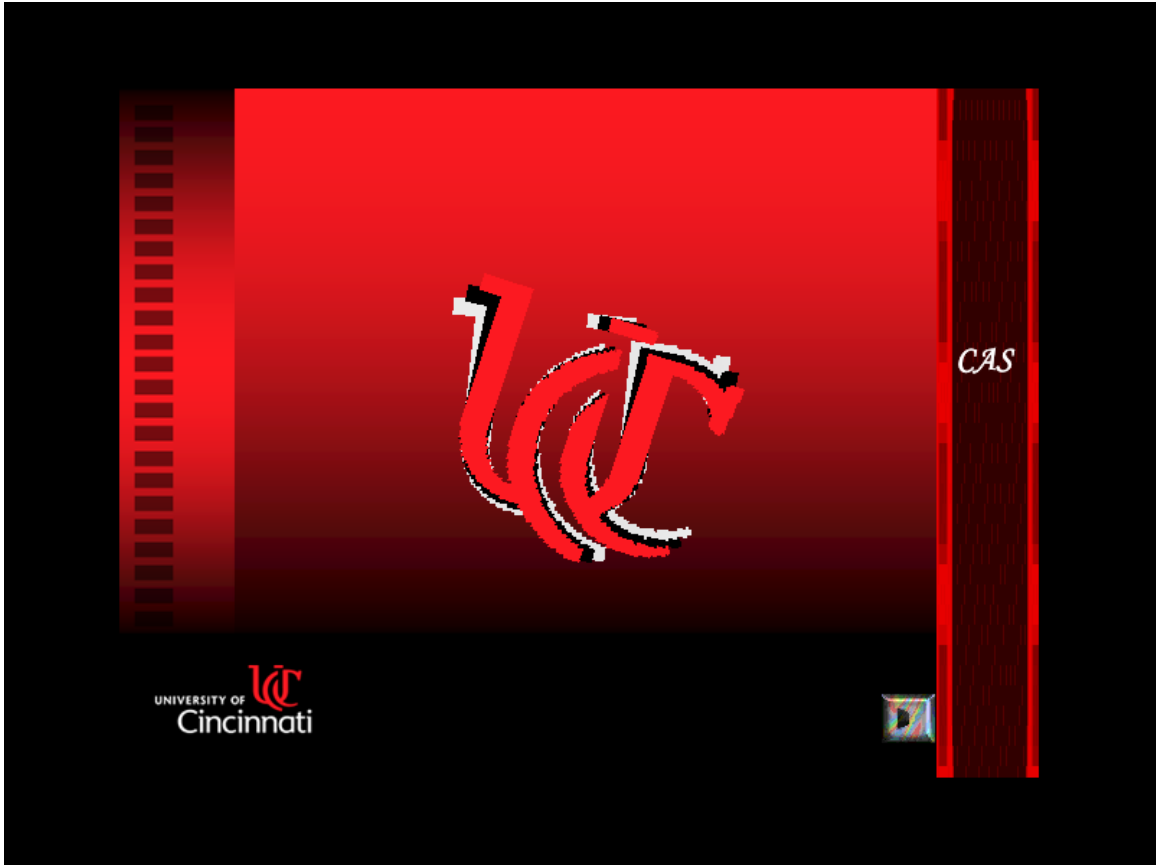


Figure 4. Picture of Screen 3

Screen 4

The user will now see slides with music from Screen 3. The slides will be of aerial pictures of the campus and other slides giving brief information about the school.



Figure 5. Picture of Screen 4

Screen 5

This is the Main Menu page. The user has six options on this screen. They are Students, Departments, Bulletins, Web sites, Help, or Exit. There are buttons with rollovers for each section.

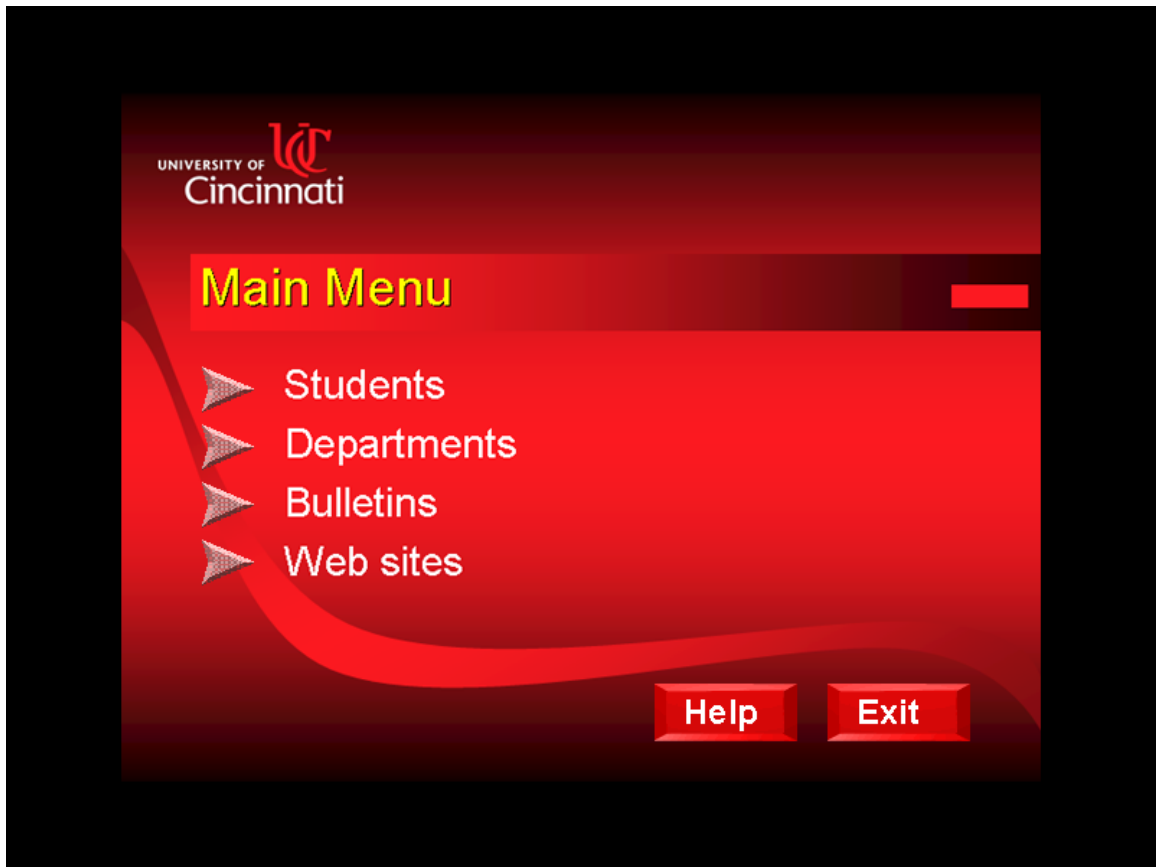


Figure 6. Picture of Screen 5

Screen 6

For the Student's page the user has the option of choosing any one of four student interviews. For the Departments page the user can pick a department to view. For the Bulletins page the user can call up Adobe Acrobat Reader 4.0 from the CD-ROM and view any one of three PDF files. For the Web sites page the user needs an Internet connection and will be able to view important UC Web sites. The Help page

automatically brings up the off-line content from the CD-ROM. The exit page gives the user the option of exiting or going back.

2.5.1 Interview Design

I interviewed these individuals:

Professor Larry Gilligan, Mathematics, Physics, and Computing Technology

Dr. Muthar Al-Ubaidi, Mechanical Engineering Technology

Professor Patrick T. Reynolds, Open Learning Fire Science

Dr. Linda Ginter-Brown, Humanities, Media, and Cultural Studies

Professor Elvin Stepp, Electrical and Computer Engineering Technology

Dr. Daniel Durbin, Construction Science

Professor Frederick J. Kryman, Chemical Technology

Ms. Robin Miller, CAS student

Mr. Joe Schmaltz, CAS student

Mr. Lee Diekman, CAS student

Ms. Shawna Sizemore, CAS student

Ms. Tamecia Walker, CAS student

2.5.2 Information Design

I used the following University brochures for information. They represent the current information published by the school about CAS. They contain information on graduation statistics, job placement rate, courses offered, degrees offered, departmental statistics and information, professors, and specific information about CAS.

College of Applied Science Bulletin

College of Applied Science Course Descriptions

University of Cincinnati Viewbook

Construction Science Builder/ Architect

College of Applied Science 2000 Graduate Report

3. Deliverables

A. Create an interactive CD-ROM that The College of Applied Science may use as a marketing tool to attract new students

B. Create an interactive CD-ROM designed to be played on virtually any PC.

C. Create images and text within the specific guidelines of the Branding Initiative of the University of Cincinnati (www.uc.edu/branding).

D. Create a CD-ROM designed to be viewed by high school, college transfer students, and guidance counselors.

E. Create video interviews with faculty from each academic department using Adobe Premiere and captured through digital video.

F. Create video interviews of students talking about the College using Adobe Premiere and captured through digital video.

G. Create an Introduction to the CD-ROM

1. Created using Macromedia Director and Flash, Adobe After Effects and Premiere, and Sonic Foundry Acid Pro.

2. Uses photographs of the school campus, graduation, and video interviews.

3. Uses multimedia programming to create interactivity between videos.

H. Uses Adobe Acrobat files to record information about courses, teachers, departments, and degrees offered.

I. Have hyperlinks for sites such as www.uc.edu and various CAS Web sites.

J. Uses Lingo and Active X programming which is native to Director and Internet Explorer.

4. Design and Development

The design and development phase was successful. Most of the products were easy to obtain, and the timeline was implemented according to schedule.

4.1 Budget

Computer	\$1200	Micro Center, Cincinnati, Ohio
After Effects	\$699.00	www.adobe.com
Premiere	\$549.00	www.adobe.com
Photoshop	\$609.00	www.adobe.com
Director	\$1,199.00	www.macromedia.com
Flash	\$499.00	www.macromedia.com
Acid Pro	\$349.97	www.sonicfoundry.com
Firewire Card	\$50	Micro Center, Cincinnati, Ohio
CD Burner	\$100	Micro Center, Cincinnati, Ohio
CDs	\$50	Micro Center, Cincinnati, Ohio
DV Camera	\$649.99	Http://bizrate.com
Still Camera	\$800	Micro Center, Cincinnati, Ohio

Figure 7. Budget Chart

4.2 Time Line

Senior Design I - Winter 2002

- Researched possible options for using multimedia
- Talked with Professors about CD-ROM
- Wrote proposal

Spring Quarter - 2002

- Shot most video footage of professors and students
- Began editing with Premiere

Senior Design II – Summer 2002

Weeks 1-5

- Shot extra footage of professors
- Finished edited videos using Premiere

Weeks 6-10

- Made rough draft of video animation
- Used Lectora to create prototype
- Documentation
- Demonstration of working prototype

Fall Quarter 2002

- Finished video animation for Dean Dunn
- Started working with Director

Senior Design III – Winter 2003

Weeks 1-5

- Created graphics for CD-ROM
- Completed entire CD-ROM using Director and Lingo

Weeks 6-10

- Final improvements and testing
- Submitted documentation and presented final product

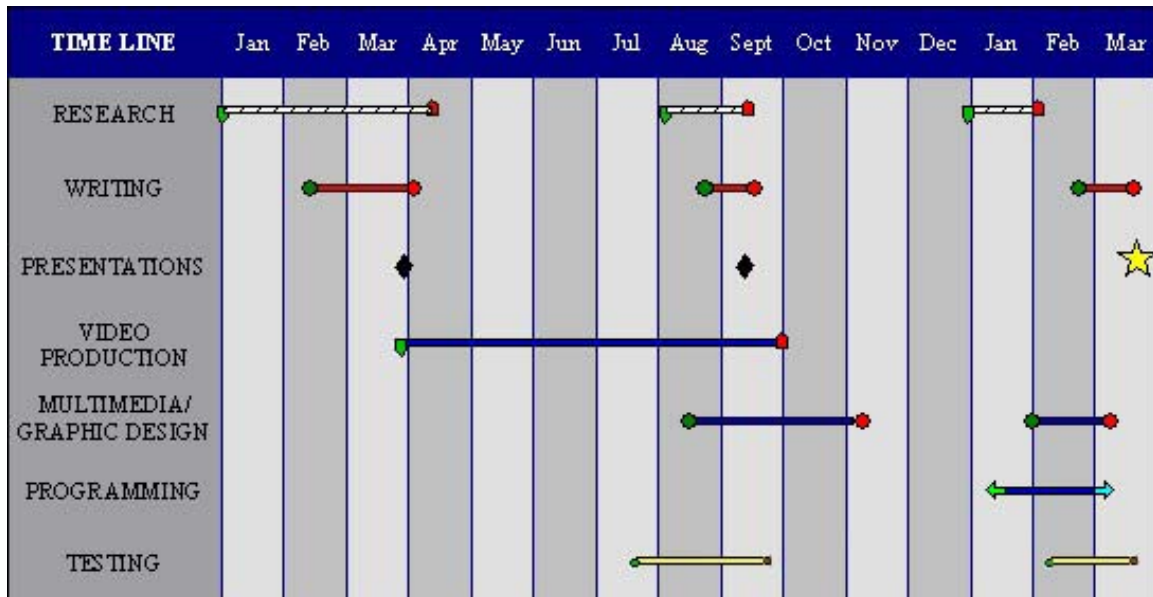


Figure 8. Senior Design Timeline

4.3 Hardware and Software Requirements

Hardware Requirements

- Home-based PC
- Digital Camera
- DV Camcorder

Software Requirements

- Adobe Premiere 6.0, Photoshop 6.0, After Effects 5.0
- Macromedia Director 7, Flash 5
- Sonic Foundry Acid Pro 3.0

5. Proof of Design

This CD-ROM meets the requirements of Senior Design. It is a major improvement upon recent attempts to make a CD-ROM for the College of Applied Science. It will serve as a prototype for future developments in such materials for the school. It also has some unique and technically advanced elements in it. First, the CD's videos show what can be

achieved using faculty and student interviews. Secondly, the programming and coding within this project are advanced for a multimedia CD-ROM. Third, the graphics are important because they fall within the guidelines of the University's Branding Policies and conventions.

5.1 Intended Use

The intended use of the CD-ROM is for high school and college transfer students. Anyone can use the CD-ROM, but it is specifically designed for marketing of the College's departments and programs. It can be viewed on any multimedia compliant Windows PC. Anyone can use this CD-ROM because the level of IT competency required to use it is not extensive. Although there is a Help section within this CD-ROM, even this Help section is not necessary for the majority of users.

5.2 Ease of Use/Interface Design

This product follows the protocols for the Windows platform. It can be used on any CD/DVD drive. The speed doesn't matter that much as long as the CD/DVD drive is at least 10x. Older CD-ROM drives may have a problem because they may not be as fast or lack the current hardware technology. The menu buttons and Lingo create a very organized structure to the CD-ROM that makes it easy to use. The introductory section has a variety of navigation options. In Director the navigation and Lingo scripting for navigation allows the user to skip three sections and go directly into the Main Menu page. All the icons and graphical symbols follow the conventions of the University Branding Initiative. The learning curve is minimal for this project. The CD achieves its intent to market the school to an individual.

6. Conclusions and Recommendations

This CD is effective for high school and college students. It is successful because of the advanced multimedia software used. All the techniques used for this project are sophisticated and show a high level of IT skill in its production. Using Premiere and After Effects for the videos was time consuming but allowed for advanced learning in the production and editing of digital video. Director 7 and Lingo provided a unique opportunity to combine graphics, text, and navigational elements with programming.

This project would serve as a good basis for any marketing company or the University to make a next generation CD for the College. Many of the interviews are outdated now since some of the professors interviewed are no longer in the same positions. The College *Bulletin* also changes often. Realistically the CD-ROM needs to be updated every year. The school changes so often that it is almost impossible to keep it current without hiring someone to constantly update the project. What would be more practical would be to make a less involved CD without some of the interview videos, and just have pertinent facts about the school that could stand to pass the test of time. One could ideally just use quotes, stills of the school and, as long as degrees weren't being added or curriculum changing, briefly mention the different CAS programs' offerings. The College of Applied Science changes so often that making something on a much smaller scale would be better for production.

This CD-ROM was useful for its use of multimedia software and a DV camera. The learning and experience achieved for this project was a success. I used and learned many new tools. This project shows technical and design achievement. The level of detail

with use of Lingo and Internet Explorer Scripts, along with the thorough development of interviews, would probably not be needed if CAS were to hire someone to recreate this.

This project as a one-time development is involved and sophisticated and represents what is possible with multimedia.

Appendix A. Special Lingo Scripts

Rotate Script

```
on exitFrame
  (sprite 2).rotation=(sprite 2).rotation+2
end
```

Go to Next Script

```
on mouseUp me
  go #next
end mouseUp
```

Go to X Script

```
property myTargetFrame

on mouseUp me
  go myTargetFrame
end mouseUp

on getPropertyDescriptionList me
  return [
    [
      #myTargetFrame: [
        [
          #comment: "Go to which frame on mouseUp?:",
          #format: #integer,
          #default: the frame
        ]
      ]
    ]
  ]
end getPropertyDescriptionList
on exitFrame me
  go the frame
end exitFrame
```

End Frame/Movie Script

```
on exitFrame
  Halt
End
```

Go to URL Script

```
on exitFrame
  gotoNetPage("activex\cas.html")
end
```

Go to URL Script

```
property myURL

on mouseUp me
  -- The user clicked on a sprite
  gotoNetPage myURL
end mouseUp

on exitFrame me
  if the currentspriteNum = 0 then
    -- The behavior is attached to a frame
    gotoNetPage myURL
  end if
end exitFrame

on getPropertyDescriptionList
  return [
    [
      #myURL:
      [
        #comment: "Destination URL:",
        #format: #string,
        #default: "http://www.macromedia.com"
      ]
    ]
  ]
end getPropertyDescriptionList
```

Rollover Member Script

```
property spriteNum
property mySprite
property myStandardMember
property myRollovermember

property spriteNum
property mySprite
property myStandardMember
```

```
property myRollovermember
```

```
on beginSprite me
```

```
    mySprite = sprite (me.spriteNum)
```

```
    myStandardMember = mySprite.member
```

```
end
```

```
on mouseEnter me
```

```
    mySprite.member = myRolloverMember
```

```
end mouseEnter
```

```
on mouseLeave me
```

```
    mySprite.member = myStandardMember
```

```
end mouseLeave
```

```
on getPropertyDescriptionList
```

```
    if the currentSpriteNum = 0 then exit
```

```
    theMember = sprite(the currentSpriteNum).member
```

```
    theMemberNumber = theMember.number
```

```
    return ▯
```

```
    [ ▯
```

```
        #myRolloverMember: ▯
```

```
        [ ▯
```

```
            #comment: "Display which member on rollover?", ▯
```

```
            #format: #graphic, ▯
```

```
            #default: member (theMemberNumber + 1) ▯
```

```
        ] ▯
```

```
    ]
```

```
end getPropertyDescriptionList
```

Go Loop Script

```
on exitFrame me
```

```
    go loop
```

```
end exitFrame
```

Call Acrobat open File Script

```
property whichpdf
```

```
on mouseUp me
```

```
    open whichpdf with "AcroRead/Reader/AcroRd32.exe"
```

```
end
```

```

on getPropertyDescriptionList
  return [#whichpdf: [#comment: "Enter pdf:",
#format:#string, #default: "AcroRead\cas.pdf" ] ]
end

```

Special Internet Explorer Scripts

Help Page

```

<html>
<head>
<style>
OBJECT { position:absolute;left:0;top:23;width:800;height:800}
#dTz1 { width:323px;height:323px;filter:shadow(direction=30,color=Black)}
</style>
</head>
<body
onload="doSS(30)"
bgcolor=rgb(213,195,123)>
<div style="position:absolute;left:453;top:23">
You are now in Internet Explorer.<br>
Click the X in the upper right corner to exit.<br>
</div>
<div id=dTz1 onmouseover="doSS(30)" style="position:absolute;left:203;top:23">
<img src=UCredlogo.gif
width=169 height=133>
</div>
<script language="JavaScript">
function doSS(okV){
if(document.all&&okV<390){
okV+=10;
document.all.dTz1.style.filter="shadow(direction="+okV+",color=Black)";
setTimeout("doSS("+okV+")",1);}}
</script>
<center>
<br>
<br>
<br>
<br>
<br>
<br>
<br>
<br>
<br>

```

```

<br>
<marquee direction=right behaviour=scroll loop=-1
style="color:red;font-size:32">
Help Menu</marquee><br><br>
</center>
<ul style="list-style-image:url('redarrow.gif');font-size:18">
<li>Insert this CD-ROM into any Windows PC based CD-ROM drive.<br><br>
<li>Click the arrows next to a topic to choose that item to view in a new screen.<br><br>
<li>To go forward or back click the animated arrow in the lower right-hand of the
screen.<br><br>
<li>To exit press the Exit button on the Main Menu page, and click exit on the very next
screen.<br><br>
<li>When viewing PDF files from the Bulletins Page just click the corresponding arrow.
Adobe<br> Acrobat Reader comes pre-installed with the CD-ROM<br><br>
<li>An Internet connection is needed to view the Web sites hyperlinks, and at least a
version<br> of Internet Explorer is needed to use this CD-ROM to view the Help section
and the ending<br> Active X page.<br><br>
<ul>
</body>
</html>

```

Active X Page

```

<html>
<head>
<style>
OBJECT { position:absolute;left:0;top:23;width:800;height:800}
.ok3{ filter:wave(add=0,freq=231,lightstrength=0,phase=0,strength=23)}
.ok9{ filter:invert}
</style>
<script language="VBScript">
Sub Window_OnLoad()
call okOutline.Scale(0.50,0.50,0.50)
call okBlue.Scale(0.50,0.50,0.50)
call okGreen.Scale(0.50,0.50,0.50)
call okGold.Scale(0.50,0.50,0.50)
call okOutline.Rotate(0,0,0)
call okGold.Rotate(0,0,0)
call okBlue.Rotate(90,0,0)
call okGreen.Rotate(0,90,0)
call Window.setInterval("okMove",1)
end sub
Sub okMove
call okOutline.Rotate(4,6,2)
call okBlue.Rotate(4,6,2)
call okGreen.Rotate(4,6,2)
call okGold.Rotate(4,6,2)

```

```

end sub
</SCRIPT>
</head>
<body background=NoZeee.gif
bgcolor=black>

<OBJECT id=okGold
style="z-index:0"
CLASSID="CLSID:369303C2-D7AC-11D0-89D5-00A0C90833E6">
<PARAM NAME="Line0001" VALUE="SetLineStyle(0)">
<PARAM NAME="Line0002" VALUE="SetFillColor(255,0,0)">
<PARAM NAME="Line0003" VALUE="SetFillStyle(1)">
<PARAM NAME="Line0004" VALUE="SetFont('Arial',300,700,0,0,0)">
<PARAM NAME="Line0005" VALUE="Text('CAS',0,0)">
</OBJECT>
<OBJECT id=okOutline
style="z-index:0"
CLASSID="CLSID:369303C2-D7AC-11D0-89D5-00A0C90833E6">
<PARAM NAME="Line0001" VALUE="SetLineStyle(1)">
<PARAM NAME="Line0002" VALUE="SetLineColor(0,0,0)">
<PARAM NAME="Line0003" VALUE="SetFillStyle(0)">
<PARAM NAME="Line0004" VALUE="SetFont('Arial',300,700,0,0,0)">
<PARAM NAME="Line0005" VALUE="Text('CAS',0,0)">
</OBJECT>
<OBJECT id=okGreen
style="z-index:1"
CLASSID="CLSID:369303C2-D7AC-11D0-89D5-00A0C90833E6">
<PARAM NAME="Line0001" VALUE="SetLineStyle(0)">
<PARAM NAME="Line0002" VALUE="SetFillColor(255,255,255)">
<PARAM NAME="Line0003" VALUE="SetFillStyle(1)">
<PARAM NAME="Line0004" VALUE="SetFont('Arial',300,700,0,0,0)">
<PARAM NAME="Line0005" VALUE="Text('CAS',0,0)">
</OBJECT>
<OBJECT id=okBlue
style="z-index:2"
CLASSID="CLSID:369303C2-D7AC-11D0-89D5-00A0C90833E6">
<PARAM NAME="Line0001" VALUE="SetLineStyle(0)">
<PARAM NAME="Line0002" VALUE="SetFillColor(0,0,0)">
<PARAM NAME="Line0003" VALUE="SetFillStyle(1)">
<PARAM NAME="Line0004" VALUE="SetFont('Arial',300,700,0,0,0)">
<PARAM NAME="Line0005" VALUE="Text('CAS',0,0)">
</OBJECT>
<!--<div style="position:absolute;left:541;top:23;z-index:-5">
<img src=NoZeee.gif
name="Green">
</div>

```

```
<div style="position:absolute;left:99;top:23;z-index:-6">
<img src=Text23.jpg
onmouseover="AOK()"
onmouseout="Hi()">
</div>-->
<div style="position:absolute;left:81;top:81;z-index:-3">
<img src=UC_Ingots.jpg>
</div>
<script language="JavaScript">
function AOK()
{
document.images["Green"].src="2003EZ.gif"
}
function Hi()
{
document.images["Green"].src="NoZeee.gif"
}
</script>
</body>
</html>
```

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