# Islamic University of Gaza

Faculty of Information Technology

Multimedia and Web Development Department



# Advertising a product through 3D video

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A Graduation Project Submitted to The Multimedia and web development Department in Partial Fulfillment of the Requirement for the Degree of B.Sc.

#### 1443-2021

#### ABSTRACT:

And since we love shoes, we wanted this proposal to be about making a video

A product promotion, to further customize Nike's product offering and stand out from the crowd.

One of the competing companies and supported by evidence, statistics, and achievements, in a 3D presentation and montage of clips that show the parts of the product beautifully and a smooth and clear style that communicates the idea and the image is in the minds and eyes of the viewer, and it shows his distinction by achieving the highest sales, superiority, and creativity over other companies

The video shows all aspects and beautifies them beautifully, quickly, and in high quality

# اهداء

محجة القلب والعينين ومن كان العطاء منهم .الى والدي الكريمين. مبذولا والدعاء منهم مأمولا من خففا ظهري من ثقل المحن واثقلاه بقناطير الحب والمنن . ادام الله ظلها وختم بالصالحات اعمارهما الى اخوتي واخواتي الى احوتي واخواتي الى اصدقائي الاعزاء الى وطني المجروح فلسطين

# ACKNOWLEDGMENT

I would like to express my appreciation to my supervisor Dr. Ashraf Y. Maghari who has cheerfully answered my queries, provided me with materials checked my examples, assisted me in myriad ways with writing, and helpfully commented on earlier of this project. I'm also very grateful to my family for their good humor

and support throughout the production of this project

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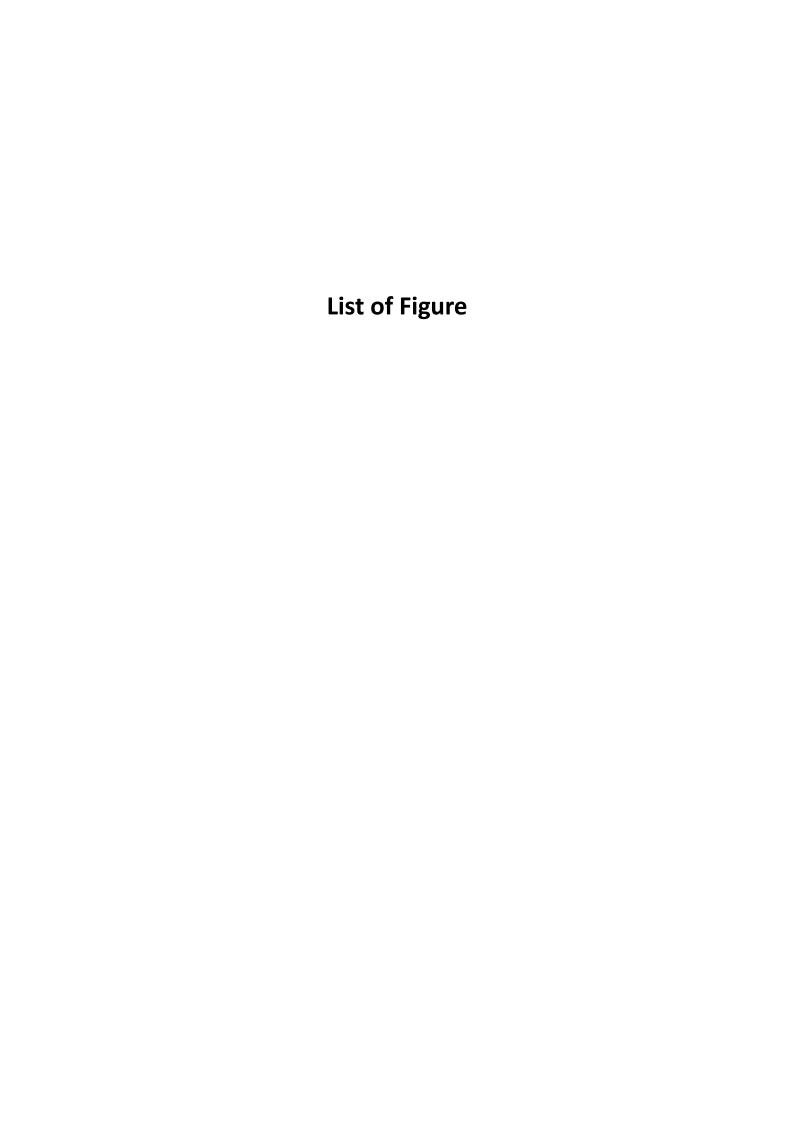
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Word	definition
Motion	Computer graphics that use video and animation to
Graphic	display a motion scene False or altered appearance.



# **List of Abbreviations**

# Chapter1

## Introduction

Recently, there has been an increase in the rate of watching movies and their spread significantly on the Internet.

TV channels and social media, and among these films, promotional films that have emerged a great need

Companies and institutions of all kinds have to make these films to publish their work and produce propaganda clips and

Professionally advertising brochures on the basis and methods of montage using the best international programs

sophisticated.

The year 1949 was considered the year in which the documentary vibe spread widely and the documentary film began to take over Its dimensions as an independent science, and its creators became an art. Since then, it has become a certainty that the promotional videos are It has a great factor in explaining and presenting services, whether for companies and their products or educational institutions of all kinds And so on, but with the development of technology, video content has become not only what attracts the viewer, but how It produces the video and the techniques made from it to make the viewer complete watching without getting bored.

Promotional videos are no longer limited to traditionally depicting a company or organization, but it became possible to It also presents facts and statistics with infographic technology and new presentation methods Attractive to the eye.

A promotional video is a short video clip to promote a movie, program, product or organization, by Indirect contact with customers to promote a specific idea or product, and the duration of the promotional video ranges between 3 minutes to 11 minutes, to ensure that more people can watch it without getting bored at length.

The duration of the video ensures enjoyment and interest in what you want to promote and achieve your desire. In this project, we propose Create a promotional video for **Nike** 

## **Problem Description:**

Many people are aware of the disparity in the extent of development and success between Nike and its competitors in terms of shoe production and the extent of their excellence and efficiency in line with the requirements of customers and the ability to sweep competing companies and commercial markets to achieve profits and gain customer satisfaction 3D.

For a Nike product, which is a medical sports shoe characterized by the highest specifications that meet the user's need and distinguish it from the rest of the shoes as it has

With advantages that are not found in other companies and, it is one of the company's secrets.

The proposed video will contribute to increasing the company's sales.

# **Objectives:**

## • The Main Objective

Production of a short promotional video detailing Nike shoes

## Sub-Objectives

- 1- Increase product sales.
- 2- Attract viewers on the latest product releases.
- 3- Educate customers about product details.
- 4- Introduce the customer to the product components and details in a realistic manner.

# The importance of the project

- 1- Attracting a lot of customers who want to buy shoes from Nike.
- 2- Increasing the number of people, especially athletes, to buy Nike's medical shoes.
- 3- High striving to sweep the special shoe market around the world.
- 4- Draw the attention of other companies on how to manufacture shoes and raise the spirit of competition strongly.

# Scope and limitations of the project

## Scope

The range is Nike shoes

The target group is people who love shoes and Nike's customers in particular.

The duration of this video is between 1 to 3 minutes at most. This video is a promotional film for the shoe only and is not for other purposes.

#### Limitations

- 1. Extensive 3D experience, which requires a lot of learning, research, and practice.
- 2. Computers with high specifications for export and rendering.
- 3. The need for a private place and fast internet.
- 4. Need to get custom shoes

## Methodology:

#### 1- Pre-Production

One of the most important stages that the production stage goes through, and here is the search and scrutiny of the basic idea that The project revolves around it and extracts it carefully after a great effort because all the following stages are based on this stage,

It is necessary here to write an introduction about the work to get an initial picture in the mind that is translated into a script and a graphic story about this film.

Determine the product to be modeled.

Providing the hardware and installing the necessary software for work.

Gathering the necessary information for this work as some of the previous activities of the company.

#### 2- Production

Here begins the executive work of the idea to be embodied and the beginning of choosing the company, choosing the product and the necessary effects, and starting to create 3D

#### 3- Post-Production

At this stage, the project has entered the final stage and, before it is properly exported, it is necessary to Some of the procedures, including:

- Compose the clips and combine them with the sound correctly. Introducing some necessary modifications.
- Add background music to the project.
- Add video effects and transition effects.
- Adding an introductory banner for colleges and facilities.
- Add titles and texts for some scenes.

# Tools, techniques and capabilities in implementation:

## **Used Tools:**

Tools	The Use
Personal computers (laptops)	are the basis on which all programs and
	tools will be running
Processor cor i7	3D requires a fast processor for
	capability
Hard Disk && USB Flash memory	Transfer files between team members
	easily and ensures their preservation

## **Used Programs:**

Programs	The Use
Blender	Creating the modeling, make materials
	for it, move it, make lighting, etc.
Adobe Premiere Pro cc 2020	are the basis on which all programs and
	tools will be running
Adobe After Effect cc 2020	Motion graphic Intro
Adobe Audition pro cc 2020	Transfer files between team members
	easily and ensures their preservation
Microsoft Project 2018	Create project schedule
Windows 10	Previous programs have been installed
	on it to ensure efficient operation and
	speed.
Microsoft Word 2018	Writing a graduation research report
Google Chrome	For research, analysis, and knowledge

# Impedimenta and solutions:

Following are the main obstacles that we encountered during the implementation of the project:

Impedimenta	solutions
Blackouts	Postponing business sessions for another day

The need for experience in the	Education and knowledge increase
field of montage	through research Locations
Frequent internet failure	Postponing and waiting for the fix
Software Download	Frequent attempts and updated versions

## **Team roles:**

## **Khaled Madani:**

Bachelor's degree student at the Islamic University, fourth level, majoring in multimedia technology and web development.

#### Tasks:

- Writing a project proposal
- Script writing
- Audio Editing
- Storyboard

- Animation
- Lighting
- Rendering
- Compositing

#### **Shaaban Abo Laban:**

Bachelor's degree student at the Islamic University, fourth level, majoring in multimedia technology and web development.

#### Tasks:

- Writing a project proposal
- Script writing
- Audio Editing
- Design
- 2D VFX / Motion Graphic
- Color Correction
- Rendering

#### **Mohammed Shraim:**

Bachelor's degree student at the Islamic University, fourth level, majoring in multimedia technology and web development.

#### Tasks:

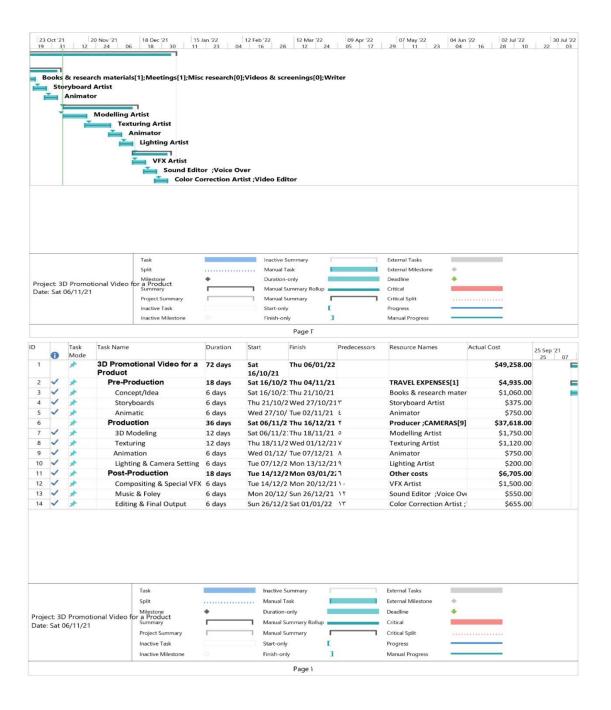
- Writing a project proposal
- Script writing
- Audio Editing
- Video Editing
- Modeling

- Texturing
- Rendering

# **Project schedule**

To create the movie, we will follow the timeline as shown in the figure below through which

We will show the film production line in all its stages, which will start from October 2021 until January 2022.



# Chapter2

# Literature review:

1. Nike: Air VaporMax Flyknit:

NIKE's athletic footwear products are designed primarily for specific athletic use, although a large percentage of the products are worn for casual or leisure purposes.

The new Nike Air VaporMax offers you an incredibly light and flexible feeling.



## **Existing problems:**

- Didn't attract customers well
- lighting problem
- Camera movement problem
- Doesn't display product details well
- The colors are uncomfortable to the eyes and inappropriate

### 2. Nike: Photosynthesis Pack:

This shoe has been designed to suit all age groups and different genders with the application of the highest quality standards and obtaining people's testimonials with a good rating.

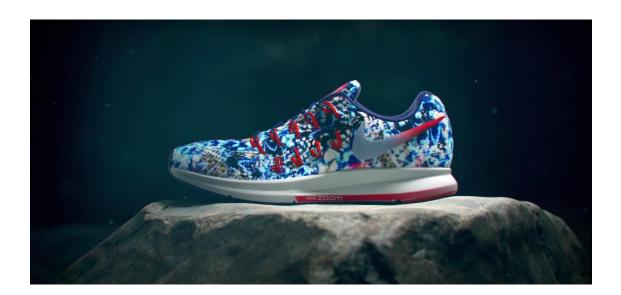


## **Existing problems:**

- black background
- Reflects an unwanted image of customers
- Unrealistic appearance of the product to customers
- Product details not completely clear

## 3. Nike Running Jungle Pack:

It is a shoe designed by Nike for the spring season It has flexibility and was decorated with flowers and coordinated in a way that suits the weather in terms of the existing materials It is completely different from winter and summer shoes.



#### **Existing problems:**

- The designer focused on design in advertising more than highlighting the product.
- Product details not featured
- The environment is not suitable for advertising a shoe product.
- The colors of the environment are not suitable with the colors of the shoes.

## **Optimizations Projects:**

- Color enhancements are made to contrast with the environment.
- Camera motion and scene tracking are professionally optimized.
- Scene lighting has been improved to make details well-clear.
- Strive to reach the largest audience.
- An improvement has been made to the output and display of the scene in proportion to the product.



### **Post Production:**

#### 1. Idea:

To innovate, we must choose an idea that is popular with us and close to our inclinations as well, so the trend was to produce a three-dimensional promotional advertisement for a product to introduce customers to the product in all its details as if it seemed realistic and to achieve the large number of accesses to users in conjunction with profit-making and competing with major companies.

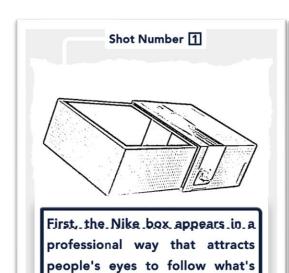
#### 2. Scenario

Number	Scene	Text	Location	Picture	Sound	Notes
1	The	Show	Snapshots	A camera	Music	
	appearance of	Nike's	inside the	that tracks		
	the Nike box	rights	Blender	the		
	and showing		program	appearance		
	the shoes			of the		
				product		
				(shoe) from		
				different		
				angles		
2	The shoes	Show	Snapshots	The camera	Music	
	come out of	Nike's	inside the	follows the		
	the box and	rights	Blender	scene		
	then appear to		program			
	the camera					
3	The camera		Snapshots	The camera	Music	
	reviews the		inside the	follows the		
	product from		Blender	scene		
	all sides, front,	-	program			
	back, side, top					
	and base as					
	well					
4	Review the		Snapshots	The camera	Music	
	product (shoe)		inside the	follows the		
	details so that	-	Blender	scene		
	the product is		program			

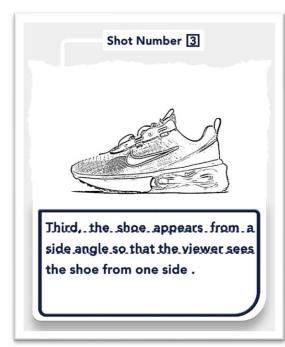
	disassembled				
	into parts				
5	Review the		Snapshots	The camera	Music
	assembly of		inside the	follows the	
	the product		Blender	scene	
	again with the	-	program		
	drawstring				
	overlap in the				
	holes designed				
	for it				
6	Browse the		Snapshots	The camera	Music
	styles of the		inside the	follows the	
	product and	-	Blender	scene	
	the colors		program		
	designed for				
	this product				
7	Return the		Snapshots	The camera	Music
	shoe to the		inside the	follows the	
	box as it was	-	Blender	scene	
	at the		program		
	beginning				
8	Displaying the		The Islamic	Design	Music
	Nike logo in a		University		
	dynamic	-	of Gaza		
	manner				
	consistent				
	with the scene				
9	The video	biblical	The Islamic	Still image	Music
	ends and the	text	University	and	
	names of the		of Gaza	university	
	students			logo	
	participating				
	in the				
	completion of				
	the work are				
	displayed, in				
	addition to				
	displaying the				
	university logo				

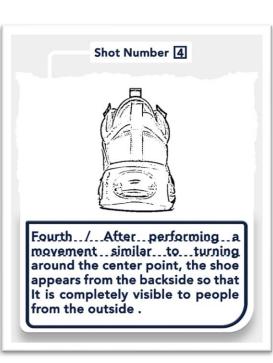
## 3. Storyboard:

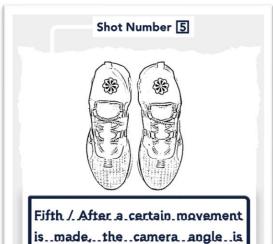
inside the box .





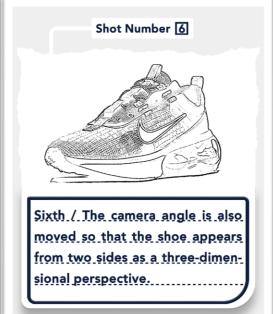


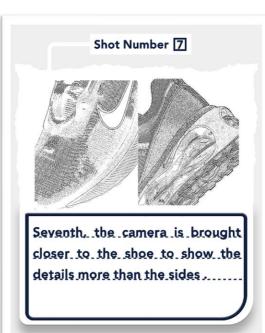


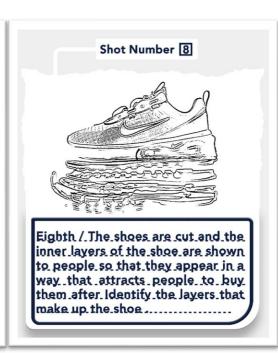


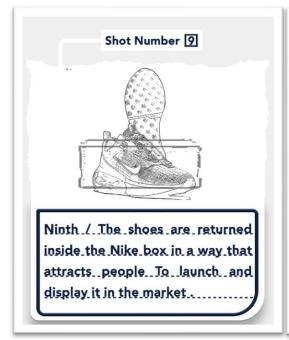
moved to the top so that the shoe

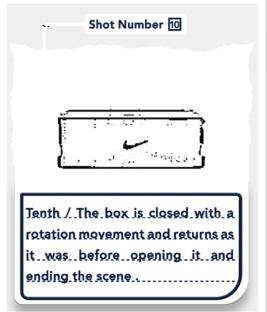
appears from the top.















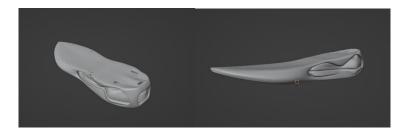
**Chapter4** 

## **Production:**

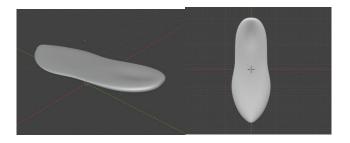
## 1. Modeling:

## Step 1:

The shoe floor is designed according to the pre-reference image of the product



Step 2: The shoe base is designed according to the reference picture



Step 3: The shoe frame is designed according to the reference picture



Step 4:
The entrances to the ties are designed according to the reference picture



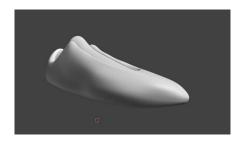
Step 5: The ties are designed according to the reference picture



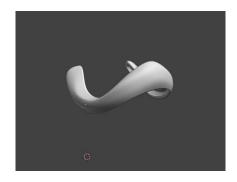
Step 6: The adhesive that connects the upper surface of the shoe to the base is designed according to the reference image



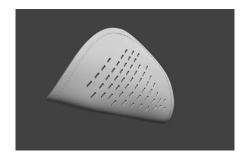
Step 7: The shoe frame is designed according to the reference picture



Step 8: The back of the shoe is designed



Step 9: The bottom of the shoe is designed

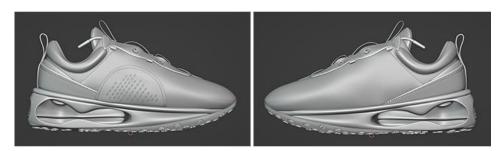


Step 10:
The final image of the product from the (top – bottom – right – left)



top view

bottom view



right view

left view

#### 2. Texturing:

The materials were applied to all the pieces that were designed in the modeling stage as appropriate and according to the product reference image.



#### 3. Animation:

The product (shoe) has been moved according to the scenario followed from the beginning, and the product will be moved using the Blender and Adobe After Effects program with dynamic movements that correspond to the smooth appearance of the product and highlight the details, so that the idea is clearly communicated to the audience.

#### 4. Lighting:

Special lighting was created for each scene to clearly show the product and its contrast and highlight the details as if it were realistic.

#### 5. Rendering:

A rendering of the viewer will be made in proportion to the scenario set before, where the output will be of a very high quality (cycle) to attract more users and obtain the largest percentage of profits.



#### **Post-Production:**

#### 1. Composition

The scenes that were output in mp4 format will be compiled using the Adobe Premiere program and the music will be inserted according to the scenario and aesthetic effects will be created in conjunction with the music.

#### 2. Motion graphic

Create custom animations to display the product, use some scripts, create an introductory banner for Nike, and create end titers that include the names of the team and admin using Adobe After Effects.

#### 3. color correction

The final video colors will be modified to increase the contrast, clarity and aesthetics of the advertisement permanently.

#### 4. Final Output

Output the final video (advertisement) in mp4 format, which will be ready for publication across all platforms and reach the largest percentage of users to achieve the project goals.

### Reference's

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- (Blender Studio 2013 the official Blender Studio channel Retrieved from https://www.youtube.com/c/BlenderAnimationStudio/featured)
- (The CG Essentials 2020 teach 3D modeling tutorials on YouTube Retrieved from <a href="https://www.youtube.com/c/TheCGEssentials/featured">https://www.youtube.com/c/TheCGEssentials/featured</a>)
- (CG Boost 2011 provide Blender tutorials and resources for 3D artists Retrieved from <a href="https://www.youtube.com/c/CGBoost/featured">https://www.youtube.com/c/CGBoost/featured</a>)
- (Kent Trammell, 2021 <a href="https://cgcookie.com/course/create-realistic-industrial-environments-with-blender-and-eevee">https://cgcookie.com/course/create-realistic-industrial-environments-with-blender-and-eevee</a>)