



NO. SAE02037

Date : MAY 19, 2022

TELEPHONE, (02)820-6036

**GRADUATE SCHOOL**

84, HEUKSEOK-RO, DONGJAK-GU, SEOUL 06974, KOREA

**OF ADVANCED IMAGING SCIENCE, MULTIMEDIA AND FILM RECORD**

|                    |                                                                   |                     |              |
|--------------------|-------------------------------------------------------------------|---------------------|--------------|
| Full Name          | :BHARATESH CHAKRAVARTHI                                           | Date of Birth       | :MAY 5, 1989 |
| Date of Admission  | :SEPTEMBER 3, 2018                                                | Date of Graduation: |              |
| Date of Completion | :AUGUST 21, 2020                                                  |                     |              |
| Graduate School    | :GRADUATE SCHOOL OF ADVANCED IMAGING SCIENCE, MULTIMEDIA AND FILM |                     |              |
| Department         | :DEPARTMENT OF IMAGING SCIENCE AND ARTS                           |                     |              |
| Major              | :IMAGE ENGINEERING-COMPUTER GRAPHICS/VIRTUAL REALITY              |                     |              |
| Degree Awarded     | :                                                                 |                     |              |

| Subject                                                                                                                                                                        | Cr. Gr.                   | Subject | Cr. Gr. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------|---------|
| 2018 2ND<br>DEEP LEARNING IMAGE RECOGNITION I<br>EMOTION ENGINEERING<br>VIRTUAL ENVIRONMENTS LAB.<br>CREDITS EARNED : 9.0 G.P.A. : 4.33<br>Converted GPA : 98.06               | 3.0 A<br>3.0 A+<br>3.0 A+ |         |         |
| 2019 1ST<br>VISUALIZATION TECHNIQUES<br>SPECIAL LECTURE IN COMPUTER GAME I<br>CREDITS EARNED : 6.0 G.P.A. : 4.50<br>Converted GPA : 100.0                                      | 3.0 A+<br>3.0 A+          |         |         |
| 2019 2ND<br>INTELLIGENCE IMAGE PROCESSING II<br>COMPUTER GRAPHICS PROGRAMMING LAB.<br>VIRTUAL REALITY AND MEDIA<br>CREDITS EARNED : 9.0 G.P.A. : 4.33<br>Converted GPA : 98.06 | 3.0 A<br>3.0 A+<br>3.0 A+ |         |         |
| 2020 1ST<br>IMAGE APPLICATION MATHEMATICS I<br>PATTERN RECOGNITION<br>CREDITS EARNED : 6.0 G.P.A. : 3.75<br>Converted GPA : 91.43                                              | 3.0 A<br>3.0 B+           |         |         |
| PREREQUISITE COURSE<br>INTRODUCTION TO THE KOREAN LANGUAGE<br>BASIC KOREAN FOR FOREIGNERS                                                                                      | 0.0 P<br>0.0 P            |         |         |
| TOTAL CREDITS EARNED : 30.0<br>G . P . A . : 4.25 / 4.50<br>Converted GPA : 97.14 (100-Point Scale)<br>===== END OF FILES =====                                                |                           |         |         |
| THESIS                                                                                                                                                                         |                           |         |         |

Grading System: Until 1989 A (100-90), B (89-80), C (79-70), P(PASS)

Since 1990 A+(100-95), A (94-90), B+(89-85), B (84-80),  
C+(79-75), C (74-70), P (PASS)

Signed :

Dean of Academic Affairs  
Chung-Ang University

UNIVERSITY SEAL

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84, HEUKSEOK-RO, DONGJAK-GU  
SEOUL 06974, KOREA

CHUNG-ANG UNIVERSITY  
TEL : (82)2-820-5114  
(82)31-670-3114

NO. SAE02036

DATE : MAY 19, 2022

### Certificate of Obtained Scholarship

Full Name : BHARATESH CHAKRAVARTHI Sex : Male  
Date of Birth : MAY 5, 1989  
Date of Admission : SEPTEMBER 3, 2018

#### Specifications of Obtained Scholarship

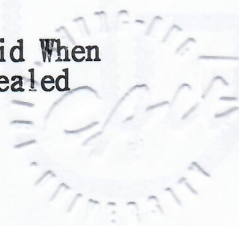
| Year | Semester                  | Kind                              | Contents  | Note |
|------|---------------------------|-----------------------------------|-----------|------|
| 2018 | The 2nd Sem. of Freshman  | International Student Scholarship | 7,650,000 |      |
| 2019 | The 1st Sem. of Freshman  | International Student Scholarship | 7,795,000 |      |
| 2019 | The 2nd Sem. of Sophomore | International Student Scholarship | 5,457,000 |      |
| 2020 | The 1st Sem. of Junior    | International Student Scholarship | 5,538,000 |      |
| 2021 | The 1st Sem. of Senior    | -                                 | 300,000   |      |
| 2021 | The 2nd Sem. of Senior    | -                                 | 300,000   |      |

This is to certify that the above mentioned person was a scholar who regularly won a scholarship to our university, being at the DEPARTMENT OF IMAGING SCIENCE AND ARTS in the GRADUATE SCHOOL OF ADVANCED IMAGING SCIENCE, MULTIMEDIA AND FILM.

1/1

Dr. Sang-Gue Park  
President  
Chung-Ang University

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TEL:(02) 820-6035, 6036

NO. SAE02033

DATE : MAY 19, 2022

### Certificate of Course Completion

Full Name : BHARATESH CHAKRAVARTHI

Date of Birth : MAY 5, 1989

Date of Admission : SEPTEMBER 3, 2018

Date of Completion : AUGUST 21, 2020

Degree Program : PH.D.

Graduate School : GRADUATE SCHOOL OF ADVANCED IMAGING SCIENCE, MULTIMEDIA  
AND FILM

Department : DEPARTMENT OF IMAGING SCIENCE AND ARTS

Major : IMAGE ENGINEERING-COMPUTER GRAPHICS/VIRTUAL REALITY

This is to certify that the above information is true and correct.

Changli Kang

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Chung-Ang University





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SEOUL 06974, KOREA

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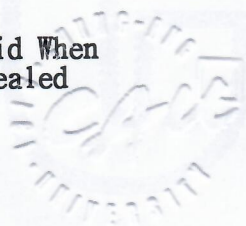
## Certificate of Enrollment

Full Name : BHARATESH CHAKRAVARTHI  
Date of Birth : MAY 5, 1989  
Date of Admission : SEPTEMBER 3, 2018  
Semester(s) Completed : FOURTH SEMESTER  
Enrollment Period : SEPTEMBER 3, 2018 - AUGUST 21, 2020  
  
Degree Program : PH.D.  
Graduate School : GRADUATE SCHOOL OF ADVANCED IMAGING SCIENCE, MULTIMEDIA AND FILM  
Department : DEPARTMENT OF IMAGING SCIENCE AND ARTS  
Major : IMAGE ENGINEERING-COMPUTER GRAPHICS/VIRTUAL REALITY

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SEOUL 06974, KOREA

NO. SAE02034

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DATE : MAY 19, 2022

## Research Registration Certificate

Full Name : BHARATESH CHAKRAVARTHI  
Date of Birth : MAY 5, 1989  
Degree Program : PH.D.  
Date of Admission : SEPTEMBER 3, 2018  
Enrollment Period : MARCH 2, 2022 - AUGUST 31, 2022  
Graduate School : GRADUATE SCHOOL OF ADVANCED IMAGING SCIENCE, MULTIMEDIA AND FILM  
Department : DEPARTMENT OF IMAGING SCIENCE AND ARTS  
Major : IMAGE ENGINEERING-COMPUTER GRAPHICS/VIRTUAL REALITY  
Research Registration Order : 4th

This is to certify that the above information is true and correct.

A handwritten signature in black ink, reading 'Changli Kang', is written over a horizontal line.

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Not Sealed

Dean of Academic Affairs  
Chung-Ang University