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**COPYRIGHT ACT 1987**  
**NOTIFICATION OF WORKS**  
 [subregulation 5(2) and 5(3)]



CR - 1

Application **Perbadanan Harta Intelek M**  
  
 LY2019000663  
 04/02/2010

**Applicant :**

Owner  Author  Licensee

Title of work (Original language) : The source code of TimeBOT : Learning and Teaching Aid for Learning disabled Children to learn about Time

Translation : \_\_\_\_\_

Transliteration : \_\_\_\_\_

Name of the Language (Language that been used in the work) : ENGLISH

If published in a periodical or serial (Literary Work) : \_\_\_\_\_ (Volume / Number) \_\_\_\_\_ (Issue Date) \_\_\_\_\_ (On Pages)

**Section A : Category of Works**

Literary  Musical  Artistic  Film  Sound Recording

Date of Fixation / First Published / Erected / Incorporated : - / / 11 / 2018

**Section B : Publication**

The Work is :  Published  Unpublished

If published : \_\_\_\_\_ (Year of Compilation) \_\_\_\_\_ (Date of first publication) \_\_\_\_\_ (Country)

**Section C : Author** ( If author is "same as owner" go to Part D - if more than one author, please attach a list of names and addresses of all the author )

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State : PERAK Country : MALAYSIA

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Fax No. : 05-3656180

**Section D : Owner** (If more than one owner, please use the attachment)

Please tick (✓) if Owner is same as Author

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\*Company Registration No. : 0352875 - U  
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**Section E : Licensee (Section D must be fill in)**

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State : \_\_\_\_\_ Country : \_\_\_\_\_  
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Date of Agreement : [ ] / [ ] / [ ]

Period of Agreement : [ ] / [ ] / [ ] until [ ] / [ ] / [ ]

Please provide copy of agreement(s)

**Section F : Contact Person**

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**Section G : Declaration**

I hereby granted my works to be viewed by public for research and educational purpose :  Yes  No

- Author of the work  
 Owner of the copyright in the work  
 Licensee of copyright the work (Please provide adequate related document(s))

Signature,

(.....)  
Name : NOREEN IZZA BTE ARSHAD  
Date (dd/mm/yy) : 4/3/2019



**Section H : Official Use**

Payment Received

Acknowledged by,

(.....)  
Officer's Name :  
Date (dd/mm/yy) :

\* Please state whichever applicable

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**THE COPYRIGHT ACT 1987**  
**THE COPYRIGHT REGULATIONS 1990**

**IN THE MATTER OF** Section 42 (1)  
of the Copyright Act 1987.

**STATUTORY DECLARATION**

I, **Noreen Izza Arshad (790426145776)** of Universiti Teknologi PETRONAS of Bandar Seri Iskandar, 32610 Tronoh, Perak Darul Ridzuan, Malaysia , a Malaysian citizen of full age do hereby solemnly and sincerely declare as follows:-

1. I am the Lecturer of Computer & Information Sciences Department of Universiti Teknologi PETRONAS of Bandar Seri Iskandar, 32610 Tronoh, Perak Darul Ridzuan, Malaysia (hereinafter referred to as "UTP").
2. The facts deposed to herein are to the best of my knowledge and belief true and are within my personal knowledge and from the records of UTP to which I have access.
3. I am authorized to make this statutory declaration for and on behalf of UTP.

On or about November 2018, (Noreen Izza Arshad (790426145776) and Ili Aidini binti Mohammed Saini (9611211135060) as employee of UTP (hereinafter referred to as "Authors"), have built and developed a Lego Mindstorms EV3 Robot and program for developing a robot for kids who were diagnosed with Learning Disabilities to learn about Time from the subject Mathematics Year 4. This built of robot and the program is known as TimeBOT: Learning and Teaching Aid for Learning Disabled Children about Time. TimeBOT is a Lego Mindstorms EV3 Robot that is designed for learning disabled children and teachers who teach learning disabled children. With the aid of the Lego Mindstorms EV3 Robot, learning disabled children can learn how to tell and read the time. TimeBOT is the first robotic Lego invention (Meccanoid robot) that have been built and assembled using the elements of Lego Mindstorms EV3 and program by using the EV3

programming software to control the behavior of the robot. TimeBOT can attract the attention of learning disabled children in learning hours, minutes and time as well as assisting the teacher in teaching. With the fast moving technology of robotics, it is best to give exposure about robotics to them as it is one of the learning tools that has been successfully use among normal kids. The program of TimeBOT includes information about each technique of rotation to tell the hour and minute as well as the correct pronunciation of the time. All of the program were created using EV3 programming software and installed it in the programmable brick (EV3 Brick/Brain) as shown in Figure 1.

Referring to the TimeBOT: Learning and Teaching Aid for Learning Disabled Children about Time, the items that we would like to protect are:

1. The source code of TimeBOT: Learning and Teaching Aid for Learning disabled Children to learn about Time (as attached in Appendix 1).

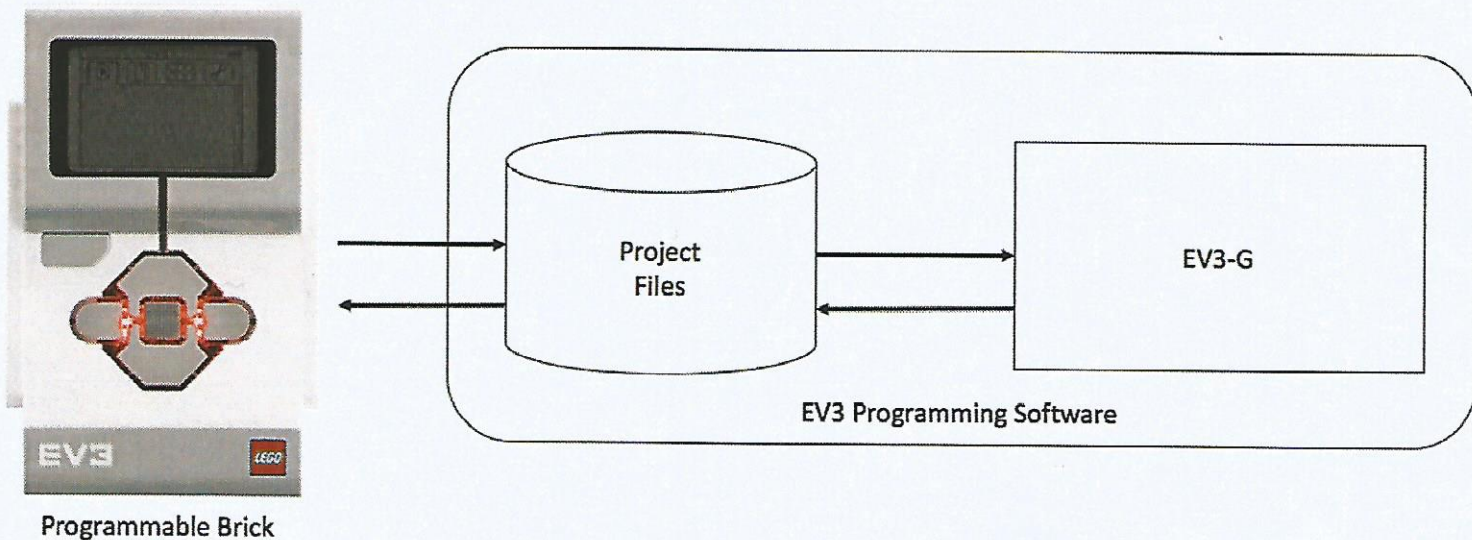
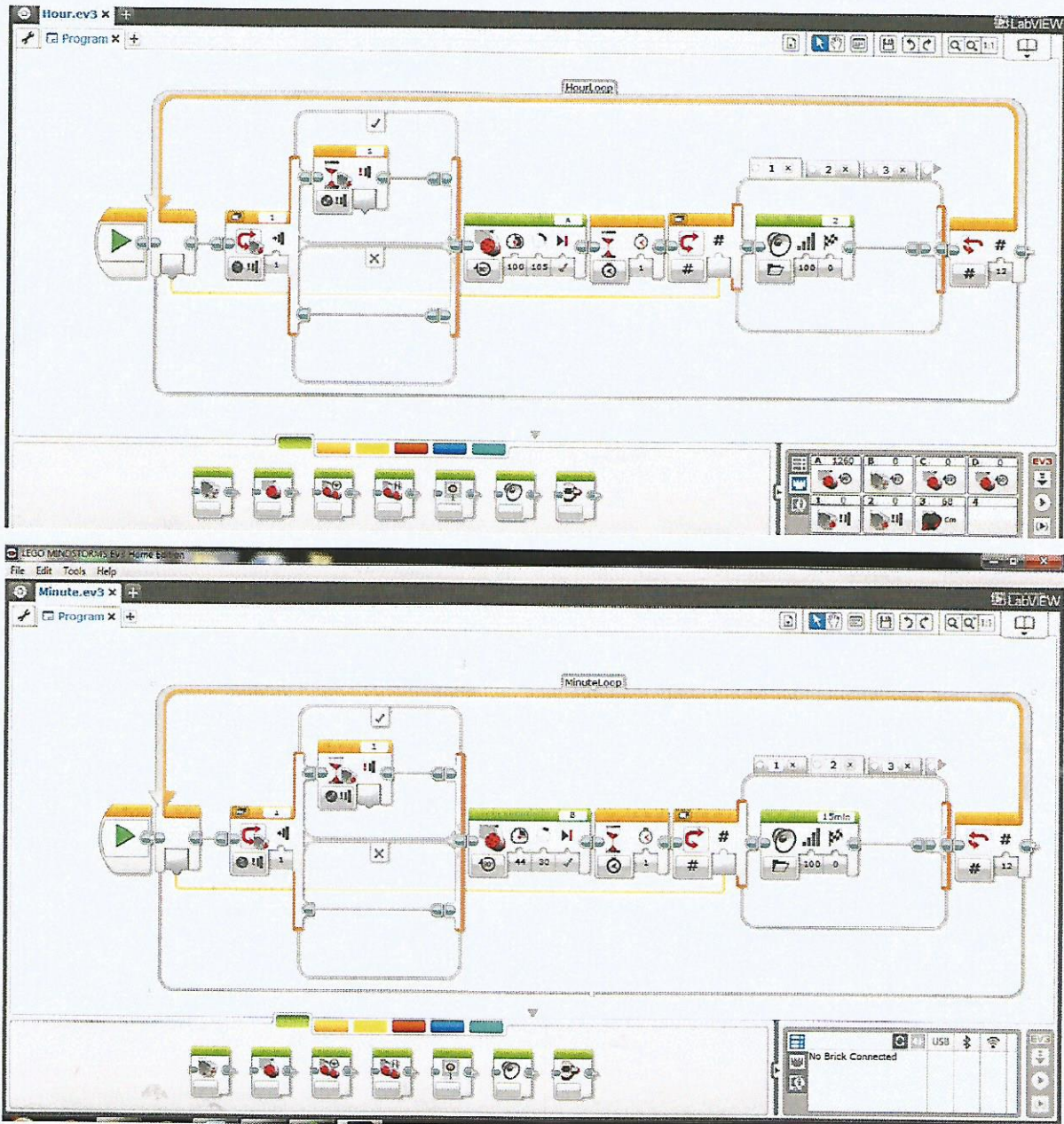


Figure 1: Bird Eye View of System Architecture

4. On November 2018, the development of the EV3 Robot and source codes were completed.

Now produced and marked as Exhibit, TimeBOT are the source codes and screen shots from TimeBOT project files are shown in Figure 2.



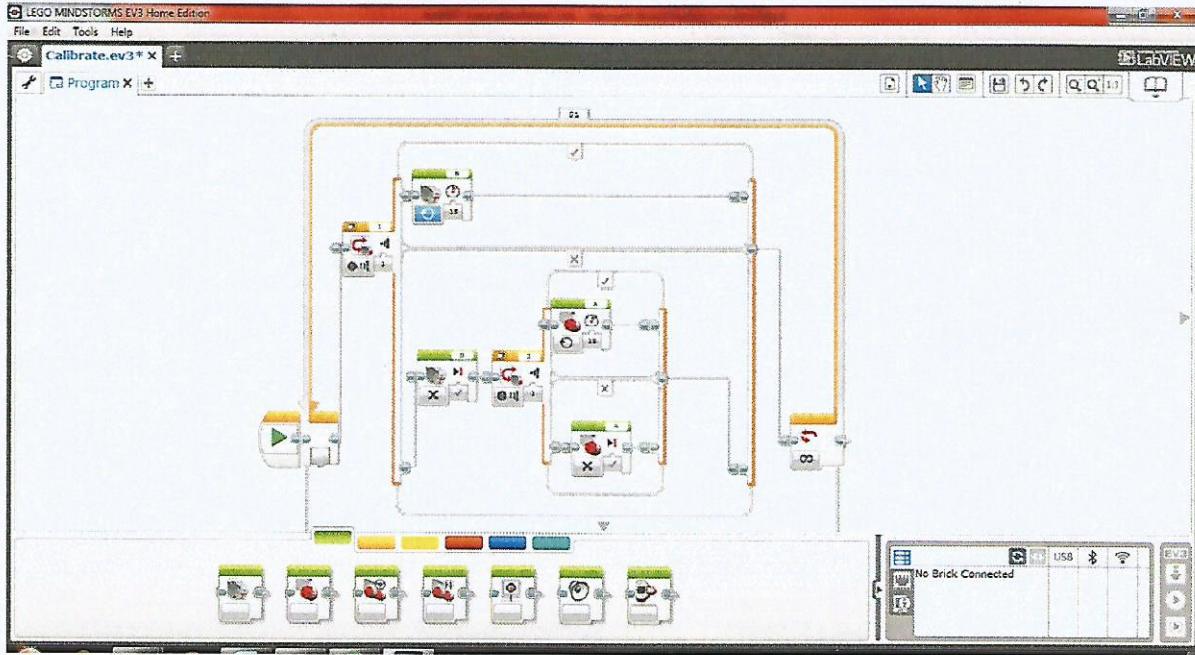
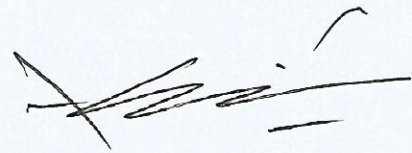


Figure 2: Snapshots of Hour, Minute and Calibrate Project File

5. I am advised and verily believe that computer programs or compilations of computer programs including source codes are Literary Work within the meaning of the Copyright Act 1987 and by virtue of that, the copyright subsists in the Literary Work on the date of creation.
4. I verily believe that since sufficient skill and effort has been expended in the creation of the Literary Work by the Authors to make the Literary Work original in character and that the Literary Work have been reduced into material form, the copyright in the Literary Work subsists from the date it was made or created as stated herein.
5. I further assert that by virtue of the facts deposed to hereinbefore, the UTP is the owner of the copyright in the computer program which includes the source codes and all materials arising therefrom.

AND I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Statutory Declarations Act 1960.

Subscribed and solemnly )  
declared by the abovenamed )  
Noreen Izza Arshad )  
at SERI ISKANDAR )  
PERAK )  
on 16th day November, 2018 )



Before me,



No. 17, Medan Selera MDPT,  
Seri Iskandar,  
32610 Seri Iskandar, Perak.



THE COPYRIGHT ACT 1987  
THE COPYRIGHT REGULATIONS 1990

IN THE MATTER OF Section 42 (1)  
of the Copyright Act 1987.

This is the document marked "DRA-1"  
Referred to in the Statutory Declaration dated  
This 16th day November, 2018.

Before me,



No. 17, Medan Selera MDPT,  
Seti Iskandar  
32610 Seti Iskandar, Perak.