



EAST WEST UNIVERSITY



INTERNSHIP REPORT ON

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# Microsemi PTP Grandmaster Clock

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FONS BD LTD



Prepared By

Md. Zillur Rahman  
ID: 2012-1-50-001

Supervised By

Dr. Nahid Akhter Jahan

07 September 2016

# LETTER OF TRANSMITTAL

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07 September 2016

To

Dr. Nahid Akhter Jahan

Assistant Professor

Department of Electronics and Communication Engineering

East West University

**Subject: Submission of Project Report as Internship (ETE-498)**

Dear Sir,

I am pleased to let you know that I have completed my Internship program at FONS BD Ltd, New Baily Road, and Dhaka. The attaché contain of the internship report that has prepared for your evaluation and consideration. The internship has given me a great opportunity to work with the networking system closely and also gave me the opportunity to apply the theoretical knowledge in real life situation which I have acquired since last four years from you and the other faculty of EWU, which would be a great help for me in future.

I am very grateful to you for your guidance throughout the internship period, which helped me a lot to acquire practical knowledge.

Thanking You.

Yours Sincerely

Md. Zillur Rahman

ID# 2012-1-50-001

Dept. Of ECE

East West University

# DECLARATION

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I, Md. Zillur Rahman, hereby declare that the presented report of internship titled **“Microsemi PTP Grandmaster Clock of FONS BD Ltd.”** is uniquely prepared by me under the course “Research/Internship (ICE-498)” after the completion of three months’ work at Alekharchar site in **Comilla**.

I also confirm that, the report is only prepared for my academic requirement not for any other purpose. It might not be used with the interest of opposite party of the corporation.

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**Md. Zillur Rahman**

ID: 2012-1-50-001

Dept. Of ECE

# ACCEPTANCE

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This internship report is submitted to the **Department of Electronics and Communication Engineering, East West University** is submitted in partial fulfillment of the requirements for the degree of **BSc in ICE** under complete supervision of the undersigned.

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**Dr. Nahid Akhter Jahan**  
Assistant Professor  
Dept. Of ECE

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**Jahirul Islam Shishir**  
Manager  
FONS BD Ltd.

# ACKNOWLEDGEMENT

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At the very beginning I would like to express my deepest gratitude to almighty Allah for giving me the strength and the composure to complete my BSc. Engineering courses and prepare this report within the scheduled time.

I would like to thank **Dr. Nahid Akhter Jahan (Assistant Professor, Dept. Of ECE, EWU)** for guided me with lots of effort and time to perform the internship program.

I want to convey my gratefulness to **Jahirul Islam Shishir (Manager, FONSD Ltd.)** who helped me greatly by providing valuable suggestion whenever required my internship report “**Microsemi PTP Grandmaster Clock of FONSD Ltd.**” They also gave the opportunity to hold that flagship of the topic.

I would also like give to acknowledgments every one of the IT Management Department of **FONSD Ltd.** For providing suggestion on how to work and what is the procedure to work in a practical manner and also how to make the internship report in a better way. They helped me in many ways by allowing whatever assistance I needed. Otherwise it was not possible for me to complete my report.

# ABSTRACT

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This report focuses on the Precision Time Protocol system of a Telecom Company. This Protocol system is built with a Time Provider called microsemi. A GPS system connects it with a power cable and earthing cable. This Synchronizer system is connected to BSC and MSC and it confirms that the whole worldwide time system is connected to our country time. This system confirms and maintains same local time from one BTS to other. If this system does not work properly then we cannot connect on local distance and also worldwide connection through mobile. So this protocol is important for our telecom company and also seemed interesting to me. Therefore, I decided to intern on this project and through which I gathered valuable experiences.