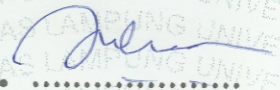


**MENGESAHKAN**

**1. Tim Penguji**

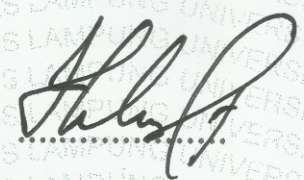
**Ketua**

**: Muhamad Komarudin, S.T., M.T.**



**Sekretaris**

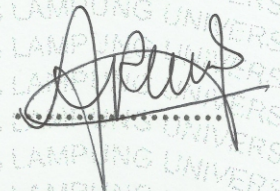
**: Dr. Helmy Fitriawan, S.T., M.Sc.**



**Penguji**

**Bukan Pembimbing**

**: Raden Arum S. P., S.Si., M.T.**



**2. Dekan Fakultas Teknik**



**Prof. Suharno, M.Sc., Ph.D.**

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**Tanggal Lulus Ujian Skripsi : 13 Agustus 2014**