

DAFTAR ISI

| | |
|---|------|
| LEMBAR NOMOR PENGESAHAN | ii |
| HALAMAN PENGESAHAN TUGAS AKHIR | iii |
| PERSEMBAHAN..... | iv |
| KATA PENGANTAR | v |
| <i>ABSTRACT</i> | vii |
| INTISARI..... | viii |
| HALAMAN PERNYATAAN | ix |
| DAFTAR ISI | x |
| DAFTAR GAMBAR..... | xii |
| DAFTAR TABEL | xiii |
| BAB I PENDAHULUAN | 1 |
| 1.1. Latar Belakang | 1 |
| 1.2. Rumusan Masalah..... | 2 |
| 1.3. Batasan Masalah..... | 3 |
| 1.4. Tujuan Penelitian..... | 3 |
| 1.5. Manfaat Penelitian | 4 |
| 1.6. Metode Pengumpulan Data | 4 |
| 1.7. Sistematika Penulisan | 4 |
| BAB II DASAR TEORI..... | 1 |
| 2.1. <i>Drawing</i> 3D..... | 1 |
| 2.2. <i>Software</i> Inventor | 1 |
| 2.3. <i>Software</i> Cura 14.12 | 3 |
| 2.3.1 Menu <i>Quick Print</i> | 4 |
| 2.3.2 Menu <i>Full Setting</i> | 4 |
| 2.4. Mesin 3D <i>Printer</i> Wanhao | 6 |

| | |
|--|----|
| 2.4.1 Spesifikasi Fisik | 6 |
| 2.5. Tampilan Mesin..... | 7 |
| 2.6. <i>Material 3D Printing</i> | 9 |
| 2.6.1 <i>Polyactid Acid (PLA)</i> | 10 |
| 2.6.2 <i>Acrylonitrile Butadiene Styrene (ABS)</i> | 11 |
| BAB III METODOLOGI PENELITIAN..... | 12 |
| 3.1. Diagram Alir Penelitian | 12 |
| 3.2. Proses Penelitian..... | 13 |
| 3.2.1. <i>Drawing Pola di Software Inventor 2008</i> | 13 |
| 3.2.2. Pengaturan di <i>Software Cura</i> | 14 |
| 3.2.3. Proses Pencetakan | 17 |
| 3.2.4. Analisa Hasil Cetakan | 21 |
| 3.3. Waktu dan Tempat Pengujian | 22 |
| BAB IV PEMBAHASAN dan ANALISA..... | 23 |
| 4.1 Hasil Pola 3D <i>printing</i> | 23 |
| BAB V PENUTUP | 28 |
| 5.1. Kesimpulan | 28 |
| 5.2. Saran | 28 |
| DAFTAR PUSTAKA | 30 |
| LAMPIRAN | 31 |