

DAFTAR ISI

LEMBAR PENGESAHAN TUGAS AKHIR	Error! Bookmark not defined.
LEMBAR PERNYATAAN ORISINALITAS	Error! Bookmark not defined.
<i>ABSTRACT</i>	Error! Bookmark not defined.
<i>ABSTRAK</i>	Error! Bookmark not defined.
KATA PENGANTAR.....	Error! Bookmark not defined.
UCAPAN TERIMA KASIH	Error! Bookmark not defined.
DAFTAR ISI.....	1
DAFTAR GAMBAR.....	Error! Bookmark not defined.
DAFTAR TABEL.....	xii
BAB I.....	1
1.1 Latar Belakang.....	1
1.2 Rumusan Masalah.....	1
1.3 Tujuan	1
1.4 Batasan Masalah.....	1
1.5 Metodologi Penelitian.....	2
1.6 Sistematika Penulisan	2
1.7 Jadwal Kegiatan	3
BAB II	4
2.1 Turbin Air	4
2.1.1 Turbin Cross-flow.....	4
2.1.2 Turbin Pico Propeler.....	5
2.1.3 PAT (Pump As Turbin)	6
2.2 Generator.....	7
2.2.1 Prinsip Kerja Generator	8
2.2.2 Bagian Bagian Generator.....	9
2.3 Kontrol PI (Proportional Integral)	10
2.4 Konverter	11
2.5 Sensor Tegangan.....	12
2.6 Sensor Arus	12
2.7 Mikrokontroler.....	13

BAB III	15
3.1 Perancangan Sistem	15
3.2 Perancangan Buckboost Converter	15
3.3 Perancangan PI Kontroler	16
3.4 Perancangan Sistem Pengendali	23
3.5 Rangkaian Optocoupler	23
3.6 Diagram Block Sistem	24
3.7 Flowchart Sistem	24
BAB IV	26
4.1 Pengujian rangkaian optocoupler.....	26
4.2 Buckboost converter	27
BAB V	29
5.1 Kesimpulan	29
5.2 Saran	29
DAFTAR PUSTAKA	30
LAMPIRAN.....	32