Embedded System Final Project G11

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PaceGuard Connection Diagram

High Precision Running Pace Monitoring System

INFRARED

IR OBSTACLE SENSOR

ARDUINO UNO ATMEGA328

Reset BTN

ON

RESET

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ATMEGA328P-PU
1121

ANALOG IN

A0 PC0/ADC0
A1 PC1/ADC1
A2 PC2/ADC2
A3 PC3/ADC3
A4 PC4/ADC4/SDA
A5 PC5/ADC5/SCL

AREF

PB5/SCK — 13
PB4/MISO — 12
~ PB3/MOSI/OC2A — 11
~ PB2/OC1B — 10
~ PB1/OC1A — 9
PB0/ICP1/CLKO — 8

PD7/AIN1 — 7
~ PD7/AIN1 — 6
~ PD5/T1/OC0B — 5
PD4/T0/XCK — 4
~ PD3/INT1/OC2B — 3
PD2/INT0 — 2
PD1/TXD — 1
PD0/RXD — 0

ARDUINO UNO

R3 10k — GO — LED-GREEN

R4 10k — SET — LED-YELLOW

R5 10k — READY — LED-RED

RESTART

EN/DISABLE

R2 10k   R1 10k

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Infrared Sensor

OUT   GND   Vcc   TestPin

LCD1

VSS

SDA
SCL
VDD

JHD-2X16-I2C