

ALEXANDRIA UNIVERSITY ALEXANDRIA, EGYPT





VORTEX

N THRUST WE TRUST

ALEXANDRIA,EGYPT

SECOND YEAR PARTICIPATING IN THE COMPETITION





DISTANCE AWAY FROM LONG BEACH, CA IS ABOUT 12,047 KM



SPECIFICATIONS

ROV NAME:

V-RAY LIKE THE STINGRAY FISH

DIMENSIONS:

.IT FITS INSIDE A 58 CM DIAMETER CIRCILE .AVARAGE SPEED: 0.92 M/S .ROV WEIGHT IN AIR: 16.85 KG

FRAMEWORK:

POLYETHYLENE AND ACRYLIC FRAME COMPACT DESIGN

TIME OF WORK AND TRAINING:

EACH MEMBER WORKED FOR AT LEAST **1500 HOURS** ON DESIGNING AND MANUFACTURING THE ROV

90 HOURS TRAINING TIME

SPECIAL FEATURES:

.COMPACT DESIGN LESS THAN 17 KILOGRAMES

RATED UP TO 100 M OF DEAPTH

.DURABLE

.AUTO-DEPTH

.WIDE RANGE OF VISSION USING HD CAMERAS

.PERFORM TASKS USING PENUMATIC MANIPULATORS

SAFETY FEATURES:

.NO SHARP EDGES

.SAFETY STICKERS

.FUSES CONNECTED TO PREVENT OVER-CURRENT A

.THRUSTER'S PROPELLER ARE SHROUDED

SHEATHED TETHER FOR PROTECTION

.FULL SAFETY CHECK LIST FOR BEST OPERATION

ROV MARKET VALUE: \$ 2281.87

COMPANY MEMBERS: ELECTRO-MECHANICAL ENGINEERING # 2017 #

IBRAHIM YOUSRY (CEO) (ELECTRICAL DEP.) (PROGRAMER)

MAHMOUD ASSEM (CFO) (ELECTRICAL DEP.)

HESHAM SAID (MEDIA) (MECHANICAL DEP.) (CAD MODELLING) (ROV-PILOT)

MUHAMMAD TAREK (MARKETING) (MECHANICAL DEP.) (ROV-PILOT)

AMR ESSAM (IT) (ELECTRICAL DEP.) (PROGRAMER) (CO-PILOT)

ABDELRAHMAN HUSSEIN (HEAD OF ENGINEERING) (MECHANICAL DEP.) (CAD MODELLING)

ABDELRAHMAN EL-MARADNY (R&D) (MECHANICAL DEP.) (CAD MODELLING)

ABDELRAHMAN ABU-KLILA (PR) (MECHANICAL DEP.)

MENTOR: PROF. DR. MOHAMMED ABDELWAHED YOUNES

