



Objective

By becoming a medical doctor and having a deep-rooted interest in technology, I wish to employ novel robotic techniques to revolutionize the field of neurological microsurgery.

Education

Baylor College of Medicine, Houston, Texas

Doctor of Medicine

Expected: Summer 2013

Houston Baptist University, Houston, Texas

Bachelor of Science (4.00 science and cumulative GPA)

Chemistry

May 2008

Biochemistry Molecular Biology

May 2008

Course Work

- Calculus I and II
- Kinesiology
- Psychology
- General Biology I, II, and III
- Physics I and II
- Cancer Biology
- Bioanalytical Methods
- Molecular Biology
- Computer Science
- Logic
- Spanish
- General Chemistry I and II
- Biochemistry
- Cell Culture
- Modern Analytical Techniques
- Virology
- History
- Macroeconomics
- Speech
- Organic Chemistry I and II
- Genetics
- Quantitative Analysis
- Physical Chemistry
- Research Ethics

Extracurricular Activities

- Alpha Epsilon Delta Fall 2005 – Spring 2008
 - Chapter President
 - Inducted as National Member
 - Webmaster
- Alpha Phi Omega Fall 2005 – Spring 2008
- Society of Physics Students Fall 2005 – Spring 2008
- South Asian Student Association Fall 2005 – Spring 2008
 - Secretary for two years
- Student Foundation Spring 2007 – Spring 2008

Awards/Honors

- Alpha Chi Honor Society Fall 2006
- Dean's List Every full-time quarter
- Freshman Class Academic Award Spring 2006
- Max and Celia Grigsby Award for Outstanding Student in the College of Science and Mathematics Spring 2008
- Mr. Houston Baptist University Spring 2008
- Mr. Alpha Phi Omega Spring 2008
- National Dean's List Spring 2007
- Omicron Delta Kappa Honorary Leadership Society Winter 2007
- Outstanding Chemistry Lab Assistant 2008 Spring 2008
- President's Award for Exemplary All-Round Male Student Spring 2008
- Recognition of Outstanding Achievement in Chemistry Spring 2008
- Summa Cum Laude Institutional Honors Spring 2008
- Who's Who Among College Students Winter 2007

Research

- Presentation of diruthenium research findings at the International Biosensors Conference in Shanghai, China Summer 2008
- Examined interactions between TMPyP (porphyrin), diruthenium (II) acetate and diruthenium (III) acetate molecules with samples of double-stranded DNA utilizing the analytical techniques of UV-vis spectrophotometry, viscometry, and the quartz crystal microbalance biosensor. The research was funded by a Welch Foundation grant and was conducted under the guidance of Dr. Robert Towery. Summer 2007
- Assessed changes in electric potentials in ice due to the presence of organic matter using various currents (AC). The purpose was to simulate conditions on Europa in pursuit of creating a simple technique to detect carbon-based life forms on distant planets/moons, even if they are frozen. Summer 2007
- Presentation of tamoxifen/FSH murine research at the HBU Research Symposium. Summer 2007
- Investigated the short-term effects of tamoxifen and follicle stimulating hormone (FSH) on bone mass in live, murine samples. I was responsible for maintaining the mice, euthanizing them, dissecting out the femurs, and developing a protocol by which to compare the bone masses from sample to sample. This research was Spring 2007

conducted under the guidance of Dr. Susan Cook.

Laboratory Skills

Biological

- Aseptic, sterile culturing techniques
- Assaying
 - Cholesterol
 - Enzyme-linked immunosorbent assay
 - Protein
- Blotting
 - Northern (RNA)
 - Southern (DNA)
 - Western (protein)
- Centrifugation
 - Low-speed
 - Density gradient
- Electrophoresis
 - Agarose
 - Polyacrylamide
- Hemocytometry
- Polymerase chain reaction (PCR)
- Restriction fragment length polymorphism (RFLP) tests

Chemical

- Chromatography
 - Affinity
 - Gas
 - Gel filtration
 - HPLC
 - Ion-exchange
 - Thin layer
- Distillation
 - Fractional
 - Refluxation
 - Simple
- Extraction
- Gravimetry
- Quartz crystal microbalance (QCM) biosensor
- Spectrophotometry
 - Fluorescence
 - Ultraviolet
 - Visible
- Spectroscopy
 - Atomic/molecular absorption
 - Atomic/molecular emission
 - Carbon magnetic resonance (CMR)
 - Infrared (IR)
 - Mass
 - Proton magnetic resonance (PMR)
- Titrimetry
 - Acid-base neutralization
 - Oxidation-reduction (redox)
 - Quantitative
- Viscometry

Teaching Assistant for Labs

- General Biology I
- Principles of Physics I
- Organic Chemistry I
- Principles of Physics II
- Organic Analysis
- Virology

Certifications

- Computer Skills: Expert Level (Spring 2006)
- Microsoft Windows XP: Expert Level (Spring 2006)
- Professional Food Manager (Fall 2007)

Work Experience

- Manager of R.K. Creations LLC doing business as (DBA) Sport Clips Fall 2008 – present
- Owner/Manager of It's A Grind Coffee House Winter 2006 – Spring 2008

Professional Development

- Shadowed neurosurgeon Edward Murphy, M.D. Spring 2007 – Spring 2008
- Volunteer at Southwest Memorial Hermann Hospital Winter 2006 – Spring 2007

Technical Skills

- Applications
 - Microsoft Office
 - Excel
 - Outlook
 - PowerPoint
 - Word
- Internet/Networking
 - Beowulf clustering
 - FTP
 - HTML
 - LAN/WAN interfaces
- Operating Systems
 - Debian Linux derivatives
 - Ubuntu Hardy Heron
 - Mint Linux
 - Mac OS X
 - 10.4 - Tiger
 - 10.5 - Leopard
 - Microsoft-based

- Programming
 - Windows Vista Ultimate
 - Windows XP Professional
 - DOS
- Java
- JavaScript
- PHP
- 125 words per minute (99% accuracy)
- Macromedia Dreamweaver
- Macromedia Flash
- <http://rk.md>
- Typing Speed
- Web-Development Programs
- Webmaster