

Curriculum Vitae, Mark A. Dinius, B.S., CFIT

Mark Dinius, B.S., CFIT

Markle Fire Department

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Professional Experience

2001 to present Markle Fire Department Markle, Indiana

Firefighter(Captain)/EMT

Duties include:

Participate in fire suppression, rescue, emergency medical and technical rescue runs.

Develop, conduct, and assist in training exercises for the department.

Member department Executive Committee

Assist in training and development of new firefighters.

Assist in fire scene origin and cause investigations.

2006 to present Mt. Etna Fire Department Mt. Etna, Indiana

Firefighter(Lieutenant)/EMT

Duties include:

Participate in fire suppression, rescue, emergency medical, and technical rescue runs.

Member Board of Directors

Assist in fire scene origin and cause investigations.

Assist in training and development of new firefighters.

2018 to Current Brotherhood Mutual Insurance Fort Wayne, Indiana

Web Application Developer II

Responsible for analysis, design, implementation, and maintenance for numerous business applications

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2000 to 2018

K&K Insurance (Aon)

Fort Wayne, Indiana

Sr. Systems Analyst /Developer

Duties include:

- Primary support for analysis and resolution of problems and errors encountered both during automated processing and by end users and clients during live operations
- Assumed lead developer role in major IT project to further implement and upgrade middleware rating applications using C#, iSeries, and MS SQL
- Primary support for processes sending daily, weekly, and monthly operational data detail to corporate business partners
- Responsible for automating and/or improve existing systems and for working with business leaders to determine enhancements needed to accommodate current business needs and planning for growth.
- Implemented email notification process in C# and AS400 CL to perform automatic error notification to IT staff so that errors can be resolved before end users and external clients are aware there is an issue
- Responsible for analysis, design, implementation, and maintenance for numerous business to business applications
- Provided primary support for customized components of Insurance forms software Docucorp and AS400 programs that feed data into Docucorp.
- Progressed to lead role in ad-hoc reporting for both business managers and executive management teams providing them timely access to key business information
- Wrote technical documentation for numerous applications and process. Assisted with user training on completed documents. Worked with the users to enhance the documentation based on user feedback from their point of view.
- Constructed several MS SQL server maintenance programs using MS SQL Server Agent to insure no disruption in database operations to end users and customers.
- Created uploads from banking applications and payment gateway service providers to the AS400.
- Redesign and upgrade of Work Item Templates in MS Team Foundation Server (TFS).
- Created uploads from banking applications and payment gateway service providers to the AS400
- Team member for maintenance and daily operational support for check printing, balancing, and check fraud avoidance application

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2000 to 2013

Parkview Huntington Hospital

Huntington, Indiana

Part-time EMT / 911 Dispatcher / Samaritan Dispatcher

Duties include:

EMS – Delivery of quality pre-hospital emergency care to patients of all ages in the pre-hospital setting using assessment skills, critical thinking, and decision making through understanding of the pathophysiology of body systems and disease processes.

Dispatcher - Provide EMD support (pre-arrival instruction) for medically related 911 calls.

Receive and efficiently process incoming and outgoing emergency pre-hospital calls for air and ground ambulance services.

Utilize system status management for dispatch and coordination of emergency medical resources for pre-hospital air and ground units.

Provide medical information and pre-arrival instructions using protocol driven instructions for medically related 911 calls.

Education

Wayne State University

Detroit, Michigan

Graduate Student

Aug 1993 – May 1995

Computational Chemistry using classical, semi-classical, and quantum mechanical methods to compare computer simulations with experimental data to develop theoretical models of molecular motion and reactivity in chemical systems.

Research Projects:

Effects of adding vibrational quanta to gas phase SN2 reactions.

Indiana-Purdue University

Fort Wayne, Indiana

Bachelor of Science in Chemistry

May 1993

Related Research Work

Developed mathematical representation of the PES for the $H + O_2 \rightarrow HO_2^* \rightarrow H-O + O$ combustion reaction.

Use of ab-initio quantum mechanical methods to computationally model potential energy surfaces

Participated in construction of Nitrogen laser to pump Rhodamine 6G dye laser

Research Paper – Overview of selected works of theoretical chemical physics with focus on gas phase molecular reaction dynamics and quantum chemistry

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Classes, Training, and Certifications Received

Public Agency Training Council – National Criminal Justice National Fire and Arson Investigator Academy	Indianapolis, Indiana 2/2/2007
National Fire Academy Courtroom Preparation and Testimony for First Responders	Emmitsburg, MD 3/15/2009
National Association of Emergency Medical Dispatch Certified Emergency Medical Dispatcher	Salt Lake City, UT 2001-2013
State of Indiana Fire/EMS Training and Certification	
EMT-A	9/19/2003 – 7/1/2014
EMT-B	12/14/2001 – 9/30/2019
Mandatory Firefighter	From 11/16/2003
Firefighter I/II	From 2/8/2006
Hazmat Awareness/Hazmat Operations	From 2/24/2006
Technical Rescue Awareness	
Confined Space, Rope Rescue, Structural Collapse, Swift Water Rescue, Trench Rescue, Vehicle and Machinery Rescue, Wilderness Rescue	From 1/16/2008
Fire Officer Strategy and Tactics	From 1/12/2008
Rope Rescue Operations	From 1/8/2009
Fire Service Instructor I	3/2/2009 - 3/5/2021
Fire Officer I	From 3/17/2009
Rope Rescue Technician	From 7/7/2015
Vehicle and Machinery Rescue Operations	From 8/15/2016
Vehicle and Machinery Rescue Technician	From 8/15/2016
International Association of Arson Investigators (IAAI) Training	
NFPA 1033 and Your Career, Tested	12/20/2012
Practical Application of the Relationship Between NFPA 1033 and NFPA 921, Tested	12/28/2012
Ethics and the Fire Investigator, Tested	12/27/2012

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Documenting the Event, Tested	1/11/2013
The Scientific Method for Fire and Explosion Investigation, Tested	5/4/2016
Basic Electricity, Tested	04/01/17
IAAI-Fire Investigation Technician Test	7/28/17
Critical Thinking Solves Cases, Tested	12/14/17
Effective Investigation and Testimony, Tested	12/19/17
Expert Witness Testimony Class, Dec 2017 - Feb 2018	2/18/2018
Fundamentals of Interviewing, Tested	5/21/19
Residential Electrical Systems, Tested	5/23/19

Certified Fire Investigation Technician (International Association of Arson Investigators) 2017 Expires 2020

Major Teaching & Leadership Positions

1997 - 1999 University of Michigan Dearborn Dearborn, Michigan

Adjunct Faculty

Duties include:

Lab Instructor/Teaching Assistant General Chemistry (Geared for Industrial Applications)

1993 - 1995 Wayne State University Detroit, Michigan

Graduate Student

Teaching Assistant Chem 555 (Split graduate/undergraduate level class)

Duties include:

Assist in class room instruction in conjunction with the regular Instructor

Lab Instructor for course laboratory work

Lectures and Courses Taught

See Appendix 1

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Conferences and Seminars

Waterloo Symposium on Chemical Physics	University of Waterloo	Nov 4-6, 1994
19th Annual Indianapolis Fire Investigation Conference - Tested	Indianapolis, IN	Aug 13-16, 2017
Cause vs. Classification and NFPA 921, NSPII/IAAI	Fishers, IN	12/13/17
20th Annual IN-Chapter IAAI Fire Investigation Conference	Indianapolis, IN	Aug 20 – 23, 2018
NASP - Arson Investigators Subrogation Webinar Series – Propane Fires and Explosions – Looking Beyond the Basic Leak	Webinar	03-12-19
NASP - Arson Investigators Subrogation Webinar Series – Important Tips and Critical Issues Involved in Investigating and Handling Condo	Webinar	6-11-19
21st Annual IN-Chapter IAAI Fire Investigation Conference	Indianapolis, IN	Aug 19 – 21, 2019

Awards

Outstanding Student of the American Chemical Society	Indiana – Purdue University Fort Wayne	1991
Indiana Governors Cup Ambulance Competition Basic Advanced Emergency Medical Technician, 3 rd Place	Indianapolis, IN	2008
Wells County Emergency Services Outstanding Achievement Award	Wells County, IN	2014
Markle Fire Department Firefighter of the Year	Markle, IN	2018

Professional Affiliations and Memberships

Indiana Volunteer Firefighters Association - IVFA	2001 - Current
National Association of Fire Investigators - NAFI	2008 - Current
International Association of Arson Investigators - IAAI	2016 - Current
National Society of Professional Insurance Investigators - NSPII	2019 - Current

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Appendix 1: Lectures and Courses Taught, 2012-2019

Emergency Vehicle Operations Course – Markle Park, Markle Church of the Brethren	Markle Park	3.0	5-12-12
Ropes/Knots – Evaluation of Practical Skills	Markle FD	2.0	6-19-12
IFSTA CH 1 – Gear, Gear Components, Safety	Markle FD	4.0	1-31-13
IFSTA 5th ed Ch2 – Firefighter Safety and Health	Markle FD	4.0	2-7-13
IFSTA 5th ed Ch3 – Fire Behavior	Markle FD	4.0	2-21-13
IFSTA 5th ed Ch3 – Fire Behavior	Markle FD	4.0	2-28-13
IFSTA 5th ed CH8 – Search-Rescue and Extrication	Markle FD	4.0	4-11-13
IFSTA 5 th ed. Hose Streams – Evaluation of Practical Skills	Markle FD	4.0	6-20-13
FF Survival: Air supply, Alarm time and empty tank time	Markle FD / Town Bldg	2.0	5-29-14
IFSTA 6th ed Orientation to the Fire Service	Markle FD	1.5	5-29-14
IFSTA 6 th ed Ch 12 Ladders – Evaluation of Practical Skills	Markle FD	4.0	6-9-14
IFSTA 6th ed Ch6 – PPE – FD and Huntington County Training Center	Markle FD	4.5	6-12-14
IFSTA 6th ed Ch2 – FF Safety and Health	Markle FD	4.0	6-5-14
IFSTA 6th ed Ch13 – Tactical Ventilation	Markle FD/Markle Town Garage	4.0	6-26-14
IFSTA 6th ed Hose Lays	Markle FD	4.0	7-10-14
IFSTA 6th ed Hose Streams – FD, Town Hydrants, Dry Hydrant at Novea	Markle FD, Novea	4.0	7-17-14
IFSTA 6th ed. Primary/Secondary Search, Carries	Markle FD / Town Bldg	4.0	7-31-14
Indiana District Three Fire Training, Module B Skills, Evaluation of Practical Skills	Mt. Etna FD	3.0	3-9-15
Haz-Mat	Markle FD	2.0	3-16-15
Pump Operations	Markle FD	2.0	4-14-15
Live Fire (Fire Behavior, hose Streams, SCBA)	Huntington Co. Training Facility	4.0	5-16-15
Rope Operations Basic Knots – Evaluation of Practical Skills	Andrews FD	2.0	6-18-15
Emergency Vehicle Operations Course	Markle FD, Markle Park	2.0	10-20-15
Situational Awareness	Markle FD	2.0	10-27-15
Hydrant Operations, Pump ops, Nozzle streams	Markle FD	3.0	11-14-15
Cold Water Rescue/Ice Rescue	Novea Pond	3.0	12-15-15
Rescue, Module for Dist 3 Class	Markle FD	4.0	12-3-15
Hose Lays, Hose types and fittings, friction loss	Markle FD	2.0	3-15-16
Extrication	A-Plus Towing	3.0	5-17-16
Manpower/Resource Utilization, Water Supply, Scene Size-Up	Markle FD	2.0	10-18-16
Live Fire Training	Huntington Co. Training Facility	3.0	10-19-16

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Vehicle Machinery – Cribbing – Evaluation of Practical Skills	Mt Etna FD	1.0	1-2-17
Vehicle Machinery – Machinery Extrication – Evaluation of Practical Skills	Mt Etna FD	8.0	1-12-17
Vehicle Machinery – State Skills Evaluation of Practical Skills	A-Plus Towing	8.0	1-14-17
RIT Pack, Review for new SOG write-up	Markle FD	3.0	2-14-17
SCBA / Gear / Donning Doffing Gear –Skill	Mt. Etna FD	4.0	2-19-17
Fire Officer Strategy and Tactics, Lead Evaluator, Huntington, IN	Huntington FD Station 3	4.0	6-29-17
Mock Structure Fire – Markle Town Compost Property Area	Markle FD	3.0	10-14-17
Indiana District 3 Fire Training Module "A", Lead Evaluator, Huntington, IN	Huntington FD Station 3	12	12-23-17
Indiana District 3 Fire Training Module "B", Lead Evaluator, Huntington, IN	Huntington Co. Training Facility	6.0	3-01-18 3-05-18
Huntington Co Technical Rescue, High Anchor Point using ladder and Fire Apparatus, Knots	Mt Etna Fire Department	2.5	3-27-18
Technical Rescue Rope Ops/Tech	Huntington Co Training Center	3.0	5-31-18
Fire Behavior, Ventilation, Doll house burn	Markle FD	2.5	7-17-18
Ropes and Knots	Markle FD	2.0	11-17-18
Cold Water / Ice Rescue	Markle FD	3.0	01-12-19
Module "D" Lead Evaluator	Huntington Training Center	5.0	2-9-19
START Triage – Incident Mgmt	Markle FD	2.5	3-26-19
IFSTA 7th Ed Ch5 – PPE, Lecture and Skills	Mt Etna FD	5.0	4-9-19
IFSTA 7th Ed Ch3 – Building Construction, Lecture and Skills	Mt Etna FD	3.0	4-16-19
IFSTA 7th Ed Ch4 – Fire Behavior, Lecture and Demos	Mt Etna FD	4.0	4-16-19
IFSTA 7th Ed Ch2 – Communication, Lecture and Skills	Mt Etna FD	2.0	4-23-19
IFSTA 7th ED Ch9 – Forcible Entry, Lecture and Skills	Mt Etna FD	4.0	4-23-19
IFSTA 7th Ed Ch8 – Ground Ladders, Lecture and Skills	Mt Etna FD	6.0	4-30-19
IFSTA 7th Ed Ch12&13 – Fire Hose, Hose Operations, and Hose Streams, Lecture and Skills	Markle FD	6.0	5-7-19
IFSTA 7th Ed Ch12&13 – Fire Hose, Hose Operations, and Hose Streams, Lecture and Skills	Markle FD	6.0	5-14-19
IFSTA 7th Ed Ch14 – Fire Suppression, Lecture	Mt Etna FD	3.0	5-21-19
IFSTA 7th Ed Ch6&7 – Portable Fire Extinguishers, Ropes and Knots, Lecture and Skills	Mt Etna FD	4.0	6-4-19
IFSTA 7th Ed Ch11 – Tactical Ventilation, Lecture	Mt Etna FD	4.0	6-11-19
Live Fire – Fire Behavior-TIC, ventilation, Downed FF Search and Rescue, MT Etna FD new FF's & Markle FD	Huntington Co Training Center	4.0	6-19-19
Indiana District 3 Fire Training Machinery Operations Lecture, Markle, IN	Markle FD	3.0	6-25-19
Indiana District 3 Fire Training Machinery Technician Lecture, Markle, IN	Markle FD	2.0	6-27-19
Indiana District 3 Fire Training Vehicle & Machinery Operational Skills Evaluator, Markle IN	Markle FD	8.0	6-29-19
Indiana District 3 Fire Training Vehicle & Machinery Technical Skills Evaluator, Markle IN	Markle FD	6.0	6-30-19

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